


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER 5H-1-46 BTR Wasatch				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164				
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 2OG0005608			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>				
20. LOCATION OF WELL	FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	2650 FNL 284 FWL		SWNW	6	4.0 S	5.0 W	U			
Top of Uppermost Producing Zone	2509 FNL 721 FEL		SENE	1	4.0 S	6.0 W	U			
At Total Depth	1980 FNL 700 FWL		SWNW	1	4.0 S	6.0 W	U			
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700		23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4523		26. PROPOSED DEPTH MD: 12356 TVD: 7580					
27. ELEVATION - GROUND LEVEL 5941			28. BOND NUMBER LPM8874725		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180					
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	No Used	0	0.0	0.0
Surf	12.25	9.625	0 - 2500	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	350	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.17	15.8
I1	8.75	7	0 - 8433	23.0	P-110 LT&C	9.2	Unknown	370	3.14	11.0
							Unknown	410	1.42	13.5
L1	6.125	4.5	0 - 12356	11.6	P-110 LT&C	9.5	No Used	0	0.0	0.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Venessa Langmacher				TITLE Senior Permit Analyst			PHONE 303 312-8172			
SIGNATURE				DATE 02/02/2012			EMAIL vlangmacher@billbarrettcorp.com			
API NUMBER ASSIGNED 43013512160000				APPROVAL  Permit Manager						

DRILLING PLAN

BILL BARRETT CORPORATION

5H-1-46 BTR Wasatch

SHL: Lot 5 (SWNW), 2650' FNL and 284' FWL, Section 6, T4S-R5W

BHL: SWNW, 1980' FNL and 700' FWL, Section 1, T4S-R6W

Duchesne Co., UT

Bill Barrett Corporation (BBC) intends to drill a horizontal through the prospective zone within the Wasatch.

1 - 3. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

HORIZONTAL LEG FFORMATION TOPS

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	2,685'	2,685'
Surface casing	2,500'	2,500'
Mahogany	3,345'	3,345'
TGR3	4,735'	4,735'
Douglas Creek	5,590'	5,590'
3 PT Marker	6,025'	6,025'
Black Shale Facies	6,445'	6,445'
Castle Peak	6,665'	6,665'
Uteland Butte	6,964'	6,964'
CR 1	7,039'	7,039'
CR 2	7,336'	7,318'
CR 3	7,662'	7,575'
*CR 4	8,265'	7,821'
TD	12,356'	7,580'

***PROSPECTIVE PAY**

The Wasatch CR4 is the primary objective for oil/gas.

Base of Useable Water = 5,500'

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12-1/4"	surface	2,500'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	8,433'	7"	23.0 ppf	P-110	LT&C	New
6 1/8"	surface	12,356'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan
 5H-1-46 BTR Wasatch
 Duchesne Co., UT

5. Cementing Program

16" Conductor Casing	<i>Grout</i>
9 5/8" Surface Casing	<i>Lead with approximately 350 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft³/sx). 75% excess TOC @ Surface Tail with 210 sx Premium 14.8 ppg (yield = 1.36 ft³/sx) calculated hole volume with 75% excess. TOC @ 2,000' Top out cement, if required: 100 sx of Premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft³/sk)</i>
7" Intermediate Casing	<i>Lead with approximately 370 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft³/sx). TOC @ 2,100' Tail with approximately 410 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). TOC @ 5,873'</i>
4 1/2" Liner with 4-1/2" Tieback to surface	<i>No cement will be used in this section. Swell packers will be run to isolate the production hole from the intermediate casing section.</i>
Note: Top of Tail cement for the intermediate string will be calculated to 1000' above the KOP using gauge hole plus 50% excess. Lead to 400' inside of surface casing.	

6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
40' – 2,500'	8.4 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,500' – 8,433'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
8,433' – TD	9.0 – 9.5	45 – 58	4 – 10	Fresh Water PHPA
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,500'	No pressure control required
2,500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 5000 psi;	
- Ancillary equipment and choke manifold rated at 5,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.	

Drilling Plan
 5H-1-46 BTR Wasatch
 Duchesne Co., UT

8. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

9. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD with GR as needed to land wellbore;
WL Logging	None in intermediate
Note: FMI and CAL may be run on the lateral portion of the horizontal wellbore at the geologist's discretion.	

10. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3744 psi* and maximum anticipated surface pressure equals approximately 2076 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

**Maximum surface pressure = A – (0.22 x TD)

11. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

12. Drilling Schedule

Location Construction: June 2012
 Spud: June 2012
 Duration: 25 days drilling time
 25 days completion time

Well name:	BTR/LC HZ Well
Operator:	BBC
String type:	Surface
Location:	Utah

Design parameters:**Collapse**

Mud weight: 8.900 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 96 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft
Minimum Drift: 8.750 in
Cement top: Surface

Burst

Max anticipated surface pressure: 527 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 857 psi

Annular backup: 9.50 ppg

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 1,302 ft

Re subsequent strings:

Next setting depth: 4,697 ft
Next mud weight: 9.500 ppg
Next setting BHP: 2,318 psi
Fracture mud wt: 11.000 ppg
Fracture depth: 1,500 ft
Injection pressure 857 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1500	9.625	36.00	K-55	ST&C	1500	1500	8.765	106.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	693	2020	2.913	527	3520	6.68	47	423	9.02 J

Bill Barrett

Date: June 23, 2011
Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	BTR/LC HZ Well
Operator:	BBC
String type:	Intermediate
Location:	Utah

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 161 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft
Minimum Drift: 6.125 in
Cement top: 11 ft

Burst

Max anticipated surface pressure: 1,683 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,036 psi

Annular backup: 9.50 ppg

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 5,274 ft

Directional Info - Build & Hold

Kick-off point 5580 ft
Departure at shoe: 604 ft
Maximum dogleg: 10 °/100ft
Inclination at shoe: 93.1 °

Re subsequent strings:

Next setting depth: 5,980 ft
Next mud weight: 9.500 ppg
Next setting BHP: 2,951 psi
Fracture mud wt: 14.000 ppg
Fracture depth: 6,152 ft
Injection pressure 4,474 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6511	7	23.00	N-80	LT&C	6152	6511	6.25	300.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3036	3575	1.177	1683	6340	3.77	121	442	3.64 J

Bill Barrett

Date: June 23, 2011
Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 6152 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	BTR/LC HZ Well
Operator:	N/A
String type:	Production Liner

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 155 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft
Minimum Drift: 3.875 in

Burst

Max anticipated surface pressure: 1,572 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 2,837 psi

Annular backup: 9.50 ppg

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Liner top: 5,000 ft
Directional Info - Build & Hold
Kick-off point 5123 ft
Departure at shoe: 4885 ft
Maximum dogleg: 8 °/100ft
Inclination at shoe: 91.26 °

Tension is based on buoyed weight.
Neutral point: 5,703 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5418	4.5	11.60	P-110	LT&C	5748	10418	3.875	26104
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2837	7580	2.672	205	10690	52.25	7.4	279	37.48 J

Bill Barrett

Date: June 23,2011
Denver, Colorado

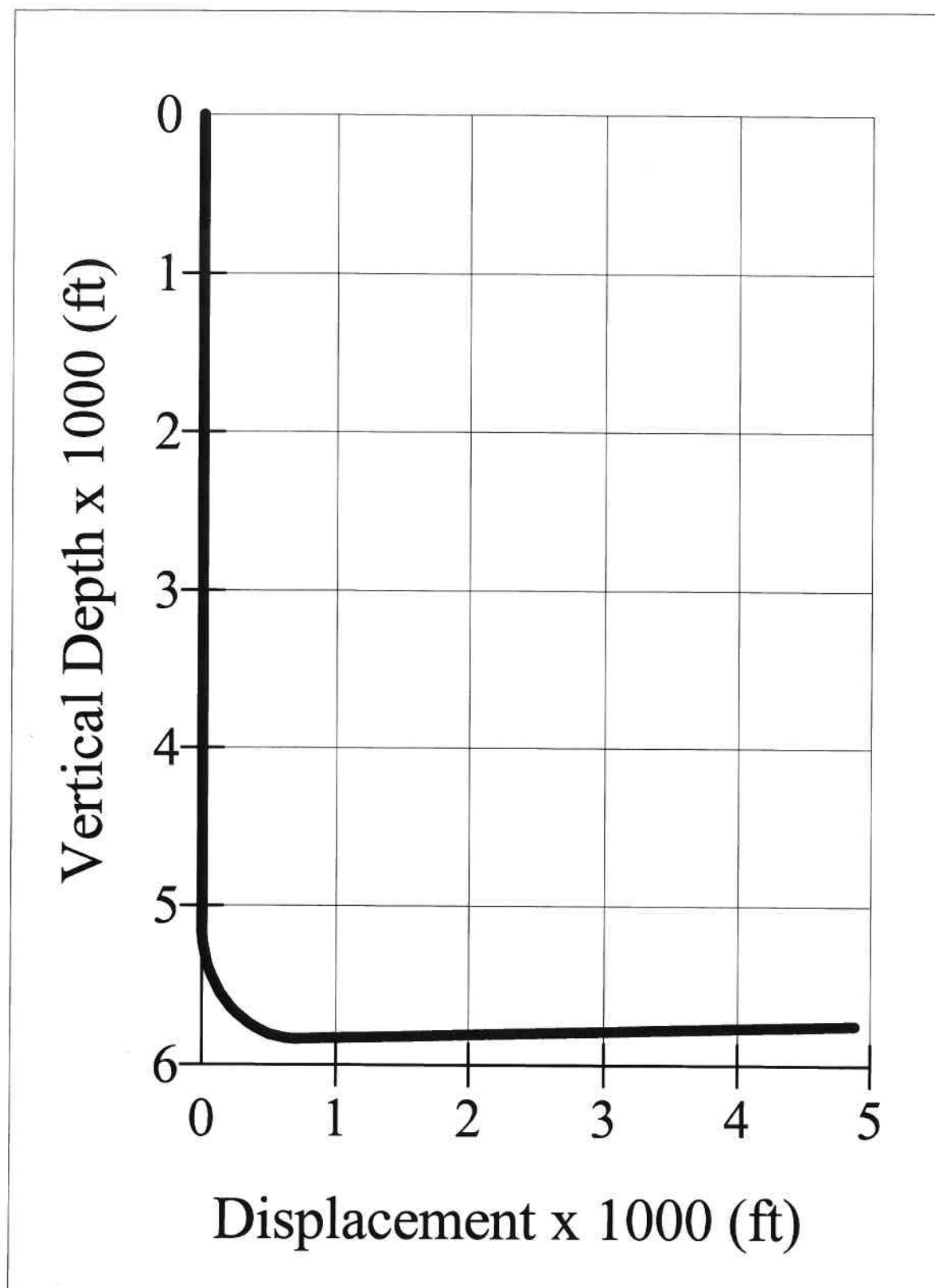
Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 5748 ft, a mud weight of 9.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.



PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

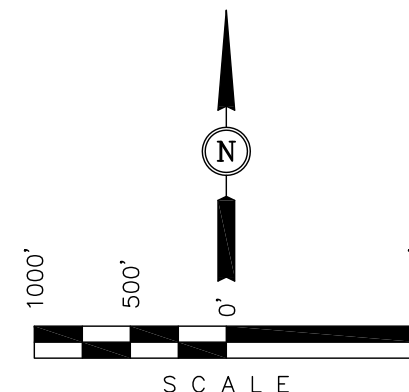
A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

F. Miscellaneous Information:

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

NE Cor. Sec. 36,
Alum. Cap**T4S, R5W, U.S.B.&M.****BILL BARRETT CORPORATION**N 1/4 Cor. Sec. 1,
1993 Brass Cap,
0.3' Above Pile of
Stones, Steel Post,
2x2 Wooden PostSection Corner
Re-Established
Using Double
Proportion
Method1993 Alum. Cap,
0.5' High, Pile of
StonesWell location, WASATCH #5H-1-46 BTR (SURFACE
LOCATION), located as shown in Lot 5 of Section
6, T4S, R5W, U.S.B.&M., Duchesne County, Utah.**T3S
T4S****BASIS OF ELEVATION**BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION
9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE,
QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD.
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID
ELEVATION IS MARKED AS BEING 6097 FEET.**CERTIFICATE**THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

 REVISED: 10-13-11
 REVISED: 07-28-11
 REVISED: 04-27-11

UINTAH ENGINEERING & LAND SURVEYING
 85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-01-10	DATE DRAWN: 12-22-10
PARTY T.A. C.N. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	

N89°29'22"E - 2546.92' (Meas.)

N89°41'49"E - 2644.65' (Meas.)

LOT 4

LOT 3

LOT 2

LOT 1

LOT 5

WASATCH #5H-1-46 BTR
 Elev. Ungraded Ground = 5941'

LOT 6

LOT 7

 NOTE:
 THE PROPOSED BOTTOM HOLE FOR THIS WELL IS
 LOCATED IN THE SW 1/4 NW 1/4 OF SECTION 1,
 T4S, R6W, U.S.B.&M. AT A DISTANCE OF 1980'
 FNL 700' FWL. IT BEARS N81°53'44"W 4932.30'
 FROM THE PROPOSED WELL HEAD.
N00°47'43"E
2645.72' (Meas.)

N00°49'30"W - 2653.25' (Meas.)

N00°37'21"E
5306.27' (Meas.)1993 Alum.
Cap, 0.6' High,
Pile of Stones1993 Alum. Cap,
1.2' High, Pile of
Stones1993 Alum. Cap,
0.2' High

1993 Alum. Cap

N89°58'24"E - 2654.01' (Meas.)

N89°19'51"E - 2536.72' (Meas.)

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

 ▲ = SECTION CORNERS
 RE-ESTABLISHED.
 (Not Set on Ground.)
BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

NAD 83 (SURFACE LOCATION)

LATITUDE = 40°09'42.97" (40.161936)

LONGITUDE = 110°30'03.64" (110.501011)

NAD 27 (SURFACE LOCATION)

LATITUDE = 40°09'43.12" (40.161978)

LONGITUDE = 110°30'01.08" (110.500300)

RECEIVED: February 02, 2012

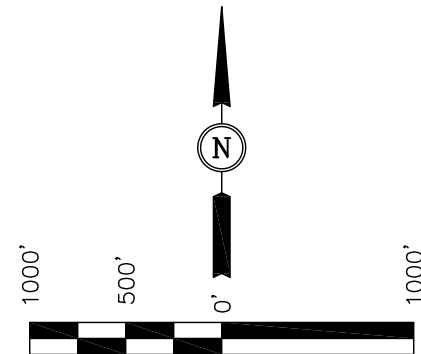
T4S, R6W, U.S.B.&M.

BILL BARRETT CORPORATION

Well location, WASATCH #5H-1-46 BTR (TARGET BOTTOM HOLE), located as shown in the SW 1/4 NW 1/4 of Section 1, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.





REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-01-10	DATE DRAWN: 10-13-11
PARTY T.A. C.N. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	

RECEIVED: February 02, 2012

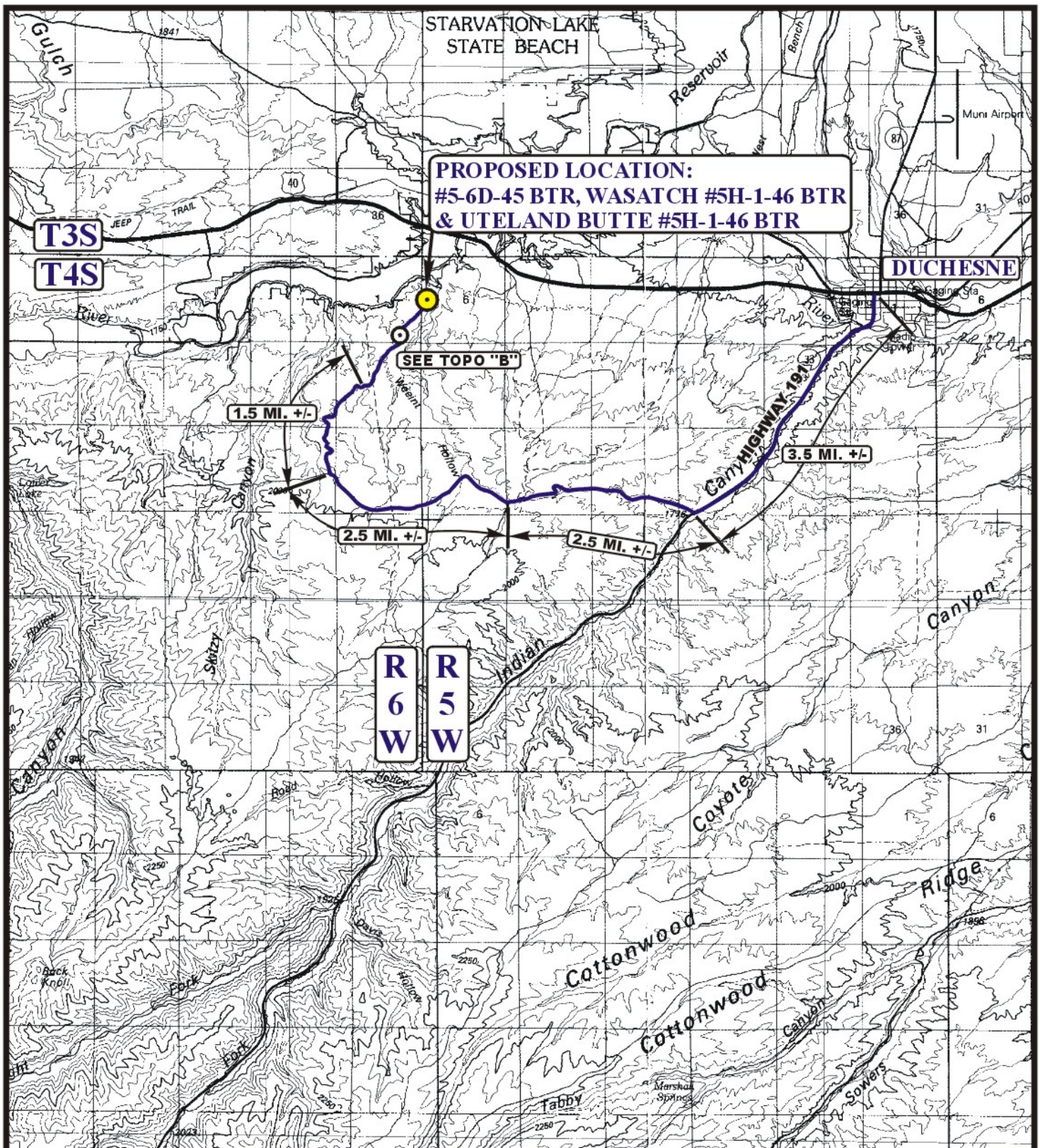
LEGEND:

-  = 90° SYMBOL B
 = PROPOSED WELL HEAD.
 = SECTION CORNERS LOCATED.
 = SECTION CORNERS RE-ESTABLISHED.
 (Not Set on Ground.)

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE	= 40°09'49.75" (40.163819)
LONGITUDE	= 110°31'06.53" (110.518481)
NAD 27 (TARGET BOTTOM HOLE)	
LATITUDE	= 40°09'49.90" (40.163861)
LONGITUDE	= 110°31'03.97" (110.517769)



LEGEND:

PROPOSED LOCATION

BILL BARRETT CORPORATION

#5-6D-45 BTR, WASATCH #5H-1-46 BTR
& UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

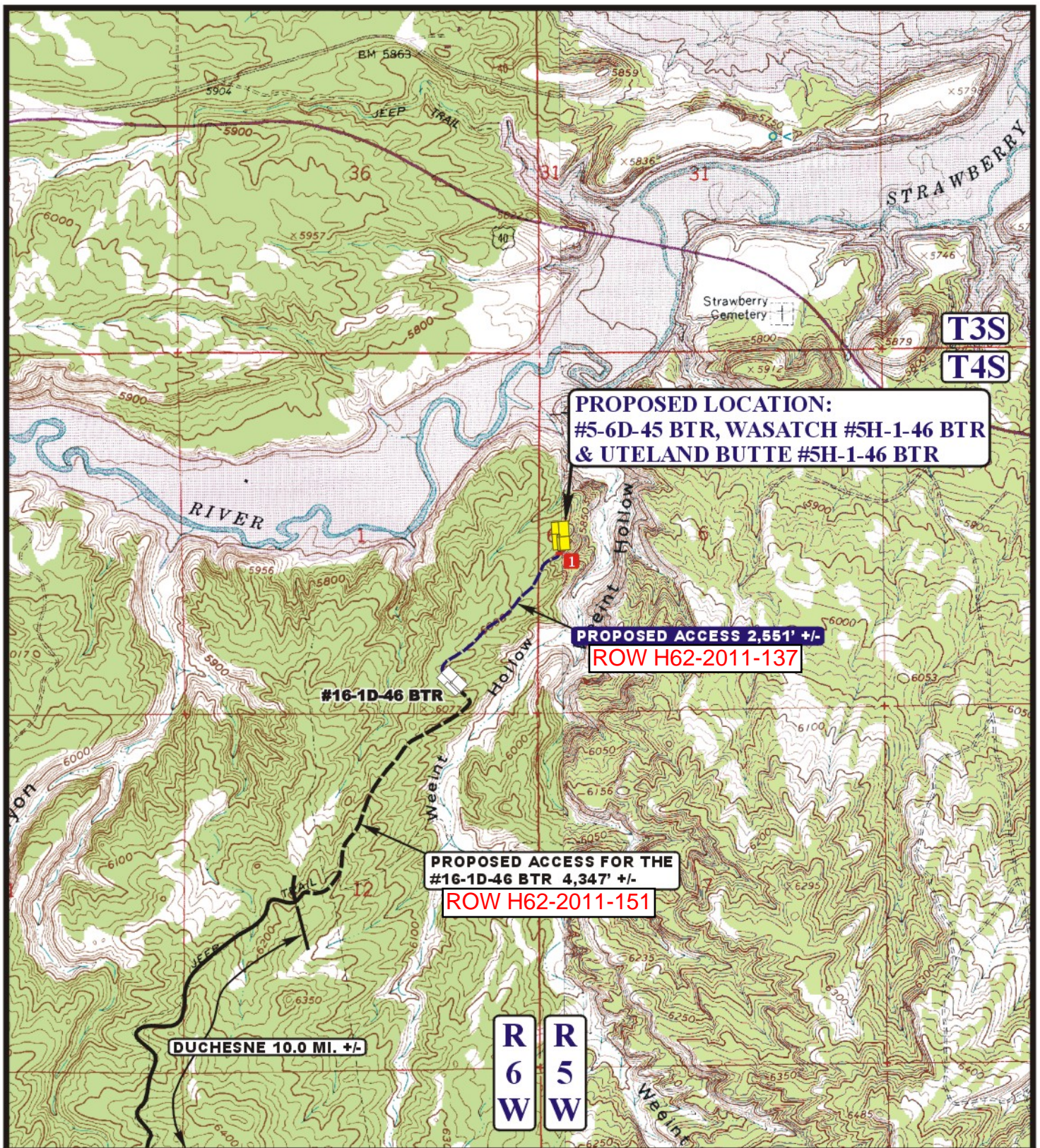


TOPOGRAPHIC
MAP

12 01 10
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 10-06-11 C.I.





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- 18" CMP REQUIRED



Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



BILL BARRETT CORPORATION

#5-6D-45 BTR, WASATCH #5H-1-46 BTR
 & UTELAND BUTTE #5H-1-46 BTR
 SECTION 6, T4S, R5W, U.S.B.&M.
 LOT 5 & LOT 6

**TOPOGRAPHIC
 MAP**

12 01 10
 MONTH DAY YEAR

**B
 TOPO**

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 10-06-11 C.I.

C
TOPO

**Bill Barrett Corporation**

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
 Error System: ISCWSA
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

SITE DETAILS: 5H-1-46 TW BTR

Blacktail Ridge

Site Centre Latitude: 40° 9' 43.121 N
 Longitude: 110° 30' 1.080 W

Positional Uncertainty: 0.0
 Convergence: 0.64
 Local North: True

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
5H-1 TW BTR PBHL	7580.0	686.4	-4882.2	40° 9' 49.900 N	110° 31' 3.968 W	Rectangle (Sides: L200.0 W200.0)

FORMATION TOP DETAILS

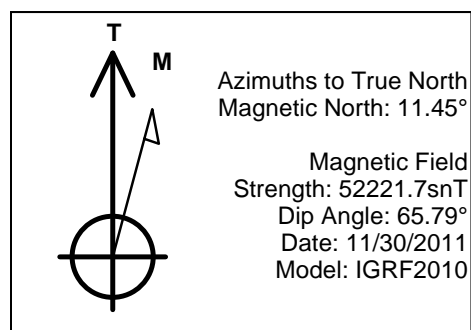
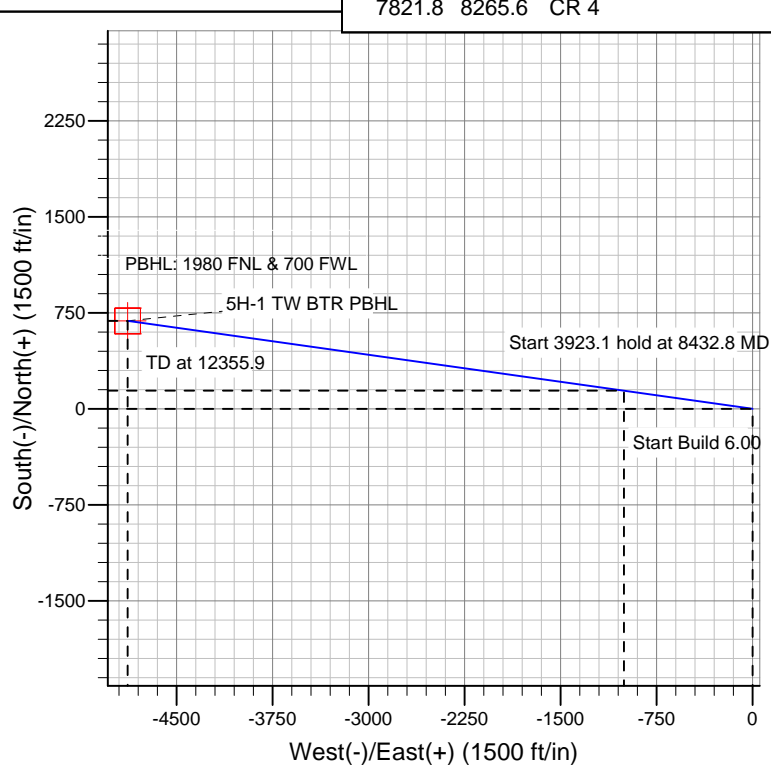
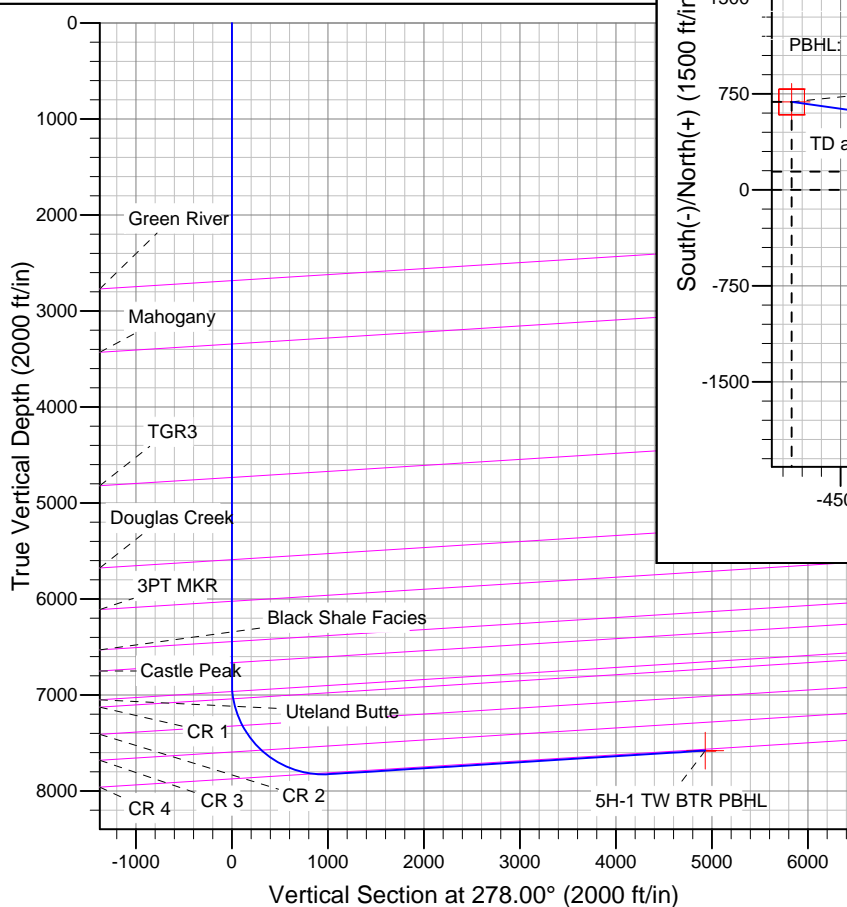
TVDPath	MDPath	Formation
2685.0	2685.0	Green River
3345.0	3345.0	Mahogany
4735.0	4735.0	TGR3
5590.0	5590.0	Douglas Creek
6025.0	6025.0	3PT MKR
6445.0	6445.0	Black Shale Facies
6665.0	6665.0	Castle Peak
6964.7	6964.9	Uteland Butte
7039.1	7039.9	CR 1
7318.1	7336.0	CR 2
7575.7	7662.7	CR 3
7821.8	8265.6	CR 4

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6872.9	0.00	0.00	6872.9	0.0	0.0	0.00	0.00	0.0	
3	8432.8	93.59	278.00	7826.0	141.3	-1004.9	6.00	278.00	1014.8	
4	12355.9	93.59	278.00	7580.0	686.4	-4882.2	0.00	0.00	4930.2	
5	12355.9	0.00	0.00	7580.0	686.4	-4882.2	0.00	180.00	4930.2	5H-1 TW BTR PBHL

CASING DETAILS

No casing data is available



BILL BARRETT CORP

DUCHESNE COUNTY, UT (NAD 27)

5H-1-46 TW BTR

5H-1-46 TW BTR

5H-1-46 TW BTR

Plan: Design #1

Standard Planning Report

27 December, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 TW BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5956.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5956.0ft (Original Well Elev)
Site:	5H-1-46 TW BTR	North Reference:	True
Well:	5H-1-46 TW BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 TW BTR		
Design:	Design #1		

Project	DUCHESNE COUNTY, UT (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	5H-1-46 TW BTR			
Site Position:		Northing:	667,607.37 ft	Latitude: 40° 9' 43.121 N
From:	Lat/Long	Easting:	2,279,393.88 ft	Longitude: 110° 30' 1.080 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence: 0.64 °

Well	5H-1-46 TW BTR			
Well Position	+N/-S	0.0 ft	Northing:	667,607.37 ft
	+E/-W	0.0 ft	Easting:	2,279,393.88 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	5,941.0 ft

Wellbore	5H-1-46 TW BTR				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/30/2011	11.45	65.79	52,222

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	278.00

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,872.9	0.00	0.00	6,872.9	0.0	0.0	0.00	0.00	0.00	0.00	
8,432.8	93.59	278.00	7,826.0	141.3	-1,004.9	6.00	6.00	0.00	278.00	
12,355.9	93.59	278.00	7,580.0	686.4	-4,882.2	0.00	0.00	0.00	0.00	
12,355.9	0.00	0.00	7,580.0	686.4	-4,882.2	0.00	0.00	0.00	180.00	5H-1 TW BTR PBHL

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 TW BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5956.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5956.0ft (Original Well Elev)
Site:	5H-1-46 TW BTR	North Reference:	True
Well:	5H-1-46 TW BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 TW BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,685.0	0.00	0.00	2,685.0	0.0	0.0	0.0	0.00	0.00	0.00
Green River									
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,345.0	0.00	0.00	3,345.0	0.0	0.0	0.0	0.00	0.00	0.00
Mahogany									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,735.0	0.00	0.00	4,735.0	0.0	0.0	0.0	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 TW BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5956.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5956.0ft (Original Well Elev)
Site:	5H-1-46 TW BTR	North Reference:	True
Well:	5H-1-46 TW BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 TW BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
TGR3									
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,590.0	0.00	0.00	5,590.0	0.0	0.0	0.0	0.00	0.00	0.00
Douglas Creek									
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,025.0	0.00	0.00	6,025.0	0.0	0.0	0.0	0.00	0.00	0.00
3PT MKR									
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,445.0	0.00	0.00	6,445.0	0.0	0.0	0.0	0.00	0.00	0.00
Black Shale Facies									
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,665.0	0.00	0.00	6,665.0	0.0	0.0	0.0	0.00	0.00	0.00
Castle Peak									
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,872.9	0.00	0.00	6,872.9	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	1.63	278.00	6,900.0	0.1	-0.4	0.4	6.00	6.00	0.00
6,964.9	5.52	278.00	6,964.7	0.6	-4.4	4.4	6.00	6.00	0.00
Uteland Butte									
7,000.0	7.63	278.00	6,999.6	1.2	-8.4	8.4	6.00	6.00	0.00
7,039.9	10.02	278.00	7,039.1	2.0	-14.4	14.6	6.00	6.00	0.00
CR 1									
7,100.0	13.63	278.00	7,097.9	3.7	-26.6	26.9	6.00	6.00	0.00
7,200.0	19.63	278.00	7,193.6	7.7	-54.9	55.5	6.00	6.00	0.00
7,300.0	25.63	278.00	7,285.9	13.1	-93.0	93.9	6.00	6.00	0.00
7,336.0	27.79	278.00	7,318.1	15.3	-109.1	110.1	6.00	6.00	0.00
CR 2									
7,400.0	31.63	278.00	7,373.6	19.7	-140.4	141.8	6.00	6.00	0.00
7,500.0	37.63	278.00	7,455.9	27.7	-196.7	198.6	6.00	6.00	0.00
7,600.0	43.63	278.00	7,531.8	36.7	-261.1	263.7	6.00	6.00	0.00
7,662.7	47.38	278.00	7,575.7	42.9	-305.4	308.4	6.00	6.00	0.00
CR 3									
7,700.0	49.63	278.00	7,600.4	46.8	-333.1	336.4	6.00	6.00	0.00
7,800.0	55.63	278.00	7,661.1	57.9	-411.7	415.8	6.00	6.00	0.00
7,900.0	61.63	278.00	7,713.1	69.8	-496.2	501.1	6.00	6.00	0.00
8,000.0	67.63	278.00	7,755.9	82.3	-585.7	591.4	6.00	6.00	0.00
8,100.0	73.63	278.00	7,789.1	95.5	-679.1	685.7	6.00	6.00	0.00
8,200.0	79.63	278.00	7,812.2	109.0	-775.3	783.0	6.00	6.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 TW BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5956.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5956.0ft (Original Well Elev)
Site:	5H-1-46 TW BTR	North Reference:	True
Well:	5H-1-46 TW BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 TW BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,265.6	83.56	278.00	7,821.8	118.0	-839.6	847.8	6.00	6.00	0.00
CR 4									
8,300.0	85.63	278.00	7,825.1	122.8	-873.5	882.1	6.00	6.00	0.00
8,400.0	91.63	278.00	7,827.4	136.7	-972.5	982.0	6.00	6.00	0.00
8,432.8	93.59	278.00	7,826.0	141.3	-1,004.9	1,014.8	6.00	6.00	0.00
8,500.0	93.59	278.00	7,821.7	150.6	-1,071.3	1,081.9	0.00	0.00	0.00
8,600.0	93.59	278.00	7,815.5	164.5	-1,170.2	1,181.7	0.00	0.00	0.00
8,700.0	93.59	278.00	7,809.2	178.4	-1,269.0	1,281.5	0.00	0.00	0.00
8,800.0	93.59	278.00	7,802.9	192.3	-1,367.8	1,381.3	0.00	0.00	0.00
8,900.0	93.59	278.00	7,796.7	206.2	-1,466.6	1,481.1	0.00	0.00	0.00
9,000.0	93.59	278.00	7,790.4	220.1	-1,565.5	1,580.9	0.00	0.00	0.00
9,100.0	93.59	278.00	7,784.1	234.0	-1,664.3	1,680.7	0.00	0.00	0.00
9,200.0	93.59	278.00	7,777.9	247.9	-1,763.1	1,780.5	0.00	0.00	0.00
9,300.0	93.59	278.00	7,771.6	261.8	-1,862.0	1,880.3	0.00	0.00	0.00
9,400.0	93.59	278.00	7,765.3	275.7	-1,960.8	1,980.1	0.00	0.00	0.00
9,500.0	93.59	278.00	7,759.0	289.6	-2,059.6	2,079.9	0.00	0.00	0.00
9,600.0	93.59	278.00	7,752.8	303.5	-2,158.5	2,179.7	0.00	0.00	0.00
9,700.0	93.59	278.00	7,746.5	317.4	-2,257.3	2,279.5	0.00	0.00	0.00
9,800.0	93.59	278.00	7,740.2	331.2	-2,356.1	2,379.3	0.00	0.00	0.00
9,900.0	93.59	278.00	7,734.0	345.1	-2,455.0	2,479.1	0.00	0.00	0.00
10,000.0	93.59	278.00	7,727.7	359.0	-2,553.8	2,578.9	0.00	0.00	0.00
10,100.0	93.59	278.00	7,721.4	372.9	-2,652.6	2,678.7	0.00	0.00	0.00
10,200.0	93.59	278.00	7,715.2	386.8	-2,751.5	2,778.5	0.00	0.00	0.00
10,300.0	93.59	278.00	7,708.9	400.7	-2,850.3	2,878.3	0.00	0.00	0.00
10,400.0	93.59	278.00	7,702.6	414.6	-2,949.1	2,978.1	0.00	0.00	0.00
10,500.0	93.59	278.00	7,696.4	428.5	-3,047.9	3,077.9	0.00	0.00	0.00
10,600.0	93.59	278.00	7,690.1	442.4	-3,146.8	3,177.7	0.00	0.00	0.00
10,700.0	93.59	278.00	7,683.8	456.3	-3,245.6	3,277.5	0.00	0.00	0.00
10,800.0	93.59	278.00	7,677.5	470.2	-3,344.4	3,377.3	0.00	0.00	0.00
10,900.0	93.59	278.00	7,671.3	484.1	-3,443.3	3,477.1	0.00	0.00	0.00
11,000.0	93.59	278.00	7,665.0	498.0	-3,542.1	3,576.9	0.00	0.00	0.00
11,100.0	93.59	278.00	7,658.7	511.9	-3,640.9	3,676.7	0.00	0.00	0.00
11,200.0	93.59	278.00	7,652.5	525.8	-3,739.8	3,776.5	0.00	0.00	0.00
11,300.0	93.59	278.00	7,646.2	539.7	-3,838.6	3,876.3	0.00	0.00	0.00
11,400.0	93.59	278.00	7,639.9	553.6	-3,937.4	3,976.2	0.00	0.00	0.00
11,500.0	93.59	278.00	7,633.7	567.5	-4,036.3	4,076.0	0.00	0.00	0.00
11,600.0	93.59	278.00	7,627.4	581.3	-4,135.1	4,175.8	0.00	0.00	0.00
11,700.0	93.59	278.00	7,621.1	595.2	-4,233.9	4,275.6	0.00	0.00	0.00
11,800.0	93.59	278.00	7,614.9	609.1	-4,332.8	4,375.4	0.00	0.00	0.00
11,900.0	93.59	278.00	7,608.6	623.0	-4,431.6	4,475.2	0.00	0.00	0.00
12,000.0	93.59	278.00	7,602.3	636.9	-4,530.4	4,575.0	0.00	0.00	0.00
12,100.0	93.59	278.00	7,596.0	650.8	-4,629.3	4,674.8	0.00	0.00	0.00
12,200.0	93.59	278.00	7,589.8	664.7	-4,728.1	4,774.6	0.00	0.00	0.00
12,300.0	93.59	278.00	7,583.5	678.6	-4,826.9	4,874.4	0.00	0.00	0.00
12,355.9	0.00	0.00	7,580.0	686.4	-4,882.2	4,930.2	167.39	-167.39	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 TW BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5956.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5956.0ft (Original Well Elev)
Site:	5H-1-46 TW BTR	North Reference:	True
Well:	5H-1-46 TW BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 TW BTR		
Design:	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,685.0	2,685.0	Green River		-3.59	278.00	
3,345.0	3,345.0	Mahogany		-3.59	278.00	
4,735.0	4,735.0	TGR3		-3.59	278.00	
5,590.0	5,590.0	Douglas Creek		-3.59	278.00	
6,025.0	6,025.0	3PT MKR		-3.59	278.00	
6,445.0	6,445.0	Black Shale Facies		-3.59	278.00	
6,665.0	6,665.0	Castle Peak		-3.59	278.00	
6,964.9	6,965.0	Uteland Butte		-3.59	278.00	
7,039.9	7,040.0	CR 1		-3.59	278.00	
7,336.0	7,325.0	CR 2		-3.59	278.00	
7,662.7	7,595.0	CR 3		-3.59	278.00	
8,265.6	7,875.0	CR 4		-3.59	278.00	

SURFACE USE PLAN

BILL BARRETT CORPORATION

5-6D-45 BTR Well Pad

Lot 5 (SWNW), 2634' FNL and 283' FWL, Section 6, T4S-R5W, USB&M (surface hole)

Lot 5 (SWNW), 2090' FNL and 810' FWL, Section 6, T4S-R5W, USB&M (bottom hole)

Duchesne County, Utah

5H-1-46 BTR Uteland Butte	5H-1-46 BTR Wasatch
Lot 6 (NWSW), 2666' FNL & 286' FWL, Sec. 6, T4S-R5W, USB&M (surface hole) SWNW, 1980' FNL & 700' FWL, Sec. 1, T4S-R6W, USB&M (bottom hole) Duchesne County, Utah	Lot 5 (SWNW), 2650' FNL & 284' FWL, Sec. 6, T4S-R5W, USB&M (surface hole) SWNW, 1980' FNL & 700' FWL, Sec. 1, T4S-R6W, USB&M (bottom hole) Duchesne County, Utah

The 5-6D-45 BTR was previously approved by the BLM on 08/17/2011 with secured right of ways from the BIA for the wellpad (H62-2011-137), access road (H62-2011-137) and pipeline (H62-2011-138). BBC now plans to add two horizontal wells to be drilled from this pad. Because of this addition of wells, it was necessary to expand the pad area 15', 0.105 acres (from 3.151 acres to 3.256 acres). BIA concurrence was received on 12/13/2011 (see letter attached) and an administrative modification for existing right of way on tribal lands was approved on 01/19/2012 (see ROW amendment attached).

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. **Existing Roads:**

- a. The proposed well site is located approximately 11.3 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing State Highway 191 would be utilized from Duchesne for 3.5 miles to the existing BBC maintained Skitzzy Road that would be utilized for 5 miles to the existing access for the 6-12-46 BTR. The access for the proposed 16-1D-46 BTR would be utilized to access this location.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.

Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permits are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 2,551 feet of access road trending northeast was previously approved under ROW H62-2011-137 and is planned from the approved 16-1D-46 BTR access road (ROW H62-2011-151). The 16-1D-46 BTR access continues an additional 4,347 feet to the existing 6-12-46 BTR well site access road (see Topographic Map B).
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed.

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Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.

- h. Turnouts are not proposed.
- i. One 18 inch culvert or low-water crossing as the road enters the pad is anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

3. Location of Existing Wells (see One-Mile Radius Map):

- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
 - i. water wells none
 - ii. injection wells none
 - iii. disposal wells none
 - iv. drilling wells none
 - v. temp shut-in wells none
 - vi. producing wells one
 - vii. abandoned wells three

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.

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Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
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- b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.
- a. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- b. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- c. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- d. Approximately 2,495 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) was previously approved under ROW H62-2011-138, trending southwest to the approved 16-1D-46 BTR pipeline corridor (ROW H62-2011-152). The 16-1D-46 BTR pipeline corridor continues 4,347' to the existing pipeline corridor for the 6-12-46 BTR. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- e. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- f. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.

Bill Barrett Corporation
 Surface Use Plan
 5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
 Duchesne County, UT

- g. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- h. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- i. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- j. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River
43-2505, Appln t37379	McKinnon Ranch Properties, LC	1.3 cfs	4/28/2011	Pumped from Sec, 17, T4SR6W	Water Canyon Lake
43-12415, Change	Peatross	1.89 cfs	09/2011	Dugout Pond	Strawberry

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 Surface Use Plan
 5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
 Duchesne County, UT

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
A17215a	Ranch, LLC				River

- b. No new water well is proposed with this application.
 - c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
 - d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.
- 6. Source of Construction Material:
 - a. The use of materials would conform to 43 CFR 3610.2-3.
 - b. No construction materials would be removed from the lease or EDA area.
 - c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.
- 7. Methods of Handling Waste Disposal:
 - a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
 - b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
 - c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
 - d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
 - e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting

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 Surface Use Plan
 5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
 Duchesne County, UT

- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

Disposal Facilities
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a

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Duchesne County, UT

week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.

- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 415 feet x 255 (previously approved at 400 feet x 255) feet with an inboard reserve pit size of 70 feet x 235 feet x 8 feet deep. See section 12.d below for disturbance estimates.

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5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan will be submitted within 90 days of location construction.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work.

Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.

- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 10-270 dated 1-17-2011. No additional archeological work is needed for the 15' pad expansion.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

- c. Project personnel and contractors would be educated on and subject to the following requirements:
- No dogs or firearms within the Project Area.
 - No littering within the Project Area.
 - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
 - Campfires or uncontained fires of any kind would be prohibited.
 - Portable generators used in the Project Area would have spark arrestors.
- d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.256	acres
Access	2,551 feet	1.757	acres
Pipeline	2,495 feet	1.718	acres
Total		6.731	acres

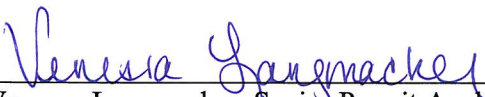
Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

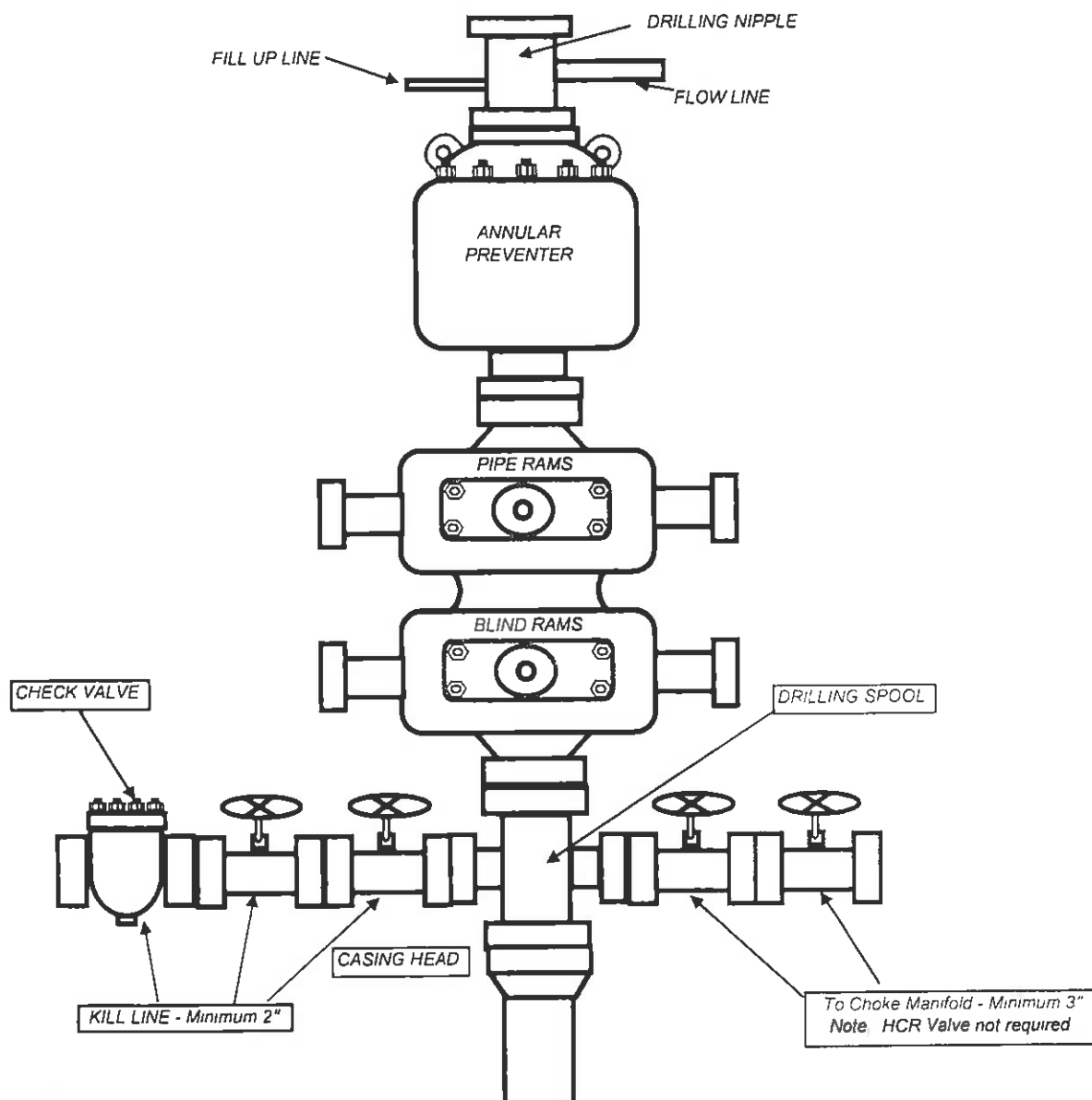
Executed this 2nd day of February 2012
Name: Venessa Langmacher
Position Title: Senior Permit Analyst
Address: 1099 18th Street, Suite 2300, Denver, CO 80202
Telephone: 303-312-8172
E-mail: vlangmacher@billbarrettcorp.com
Field Representative Kary Eldredge / Bill Barrett Corporation
Address: 1820 W. Highway 40, Roosevelt, UT 84066
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)
E-mail: keldredge@billbarrettcorp.com



Venessa Langmacher, Senior Permit Analyst

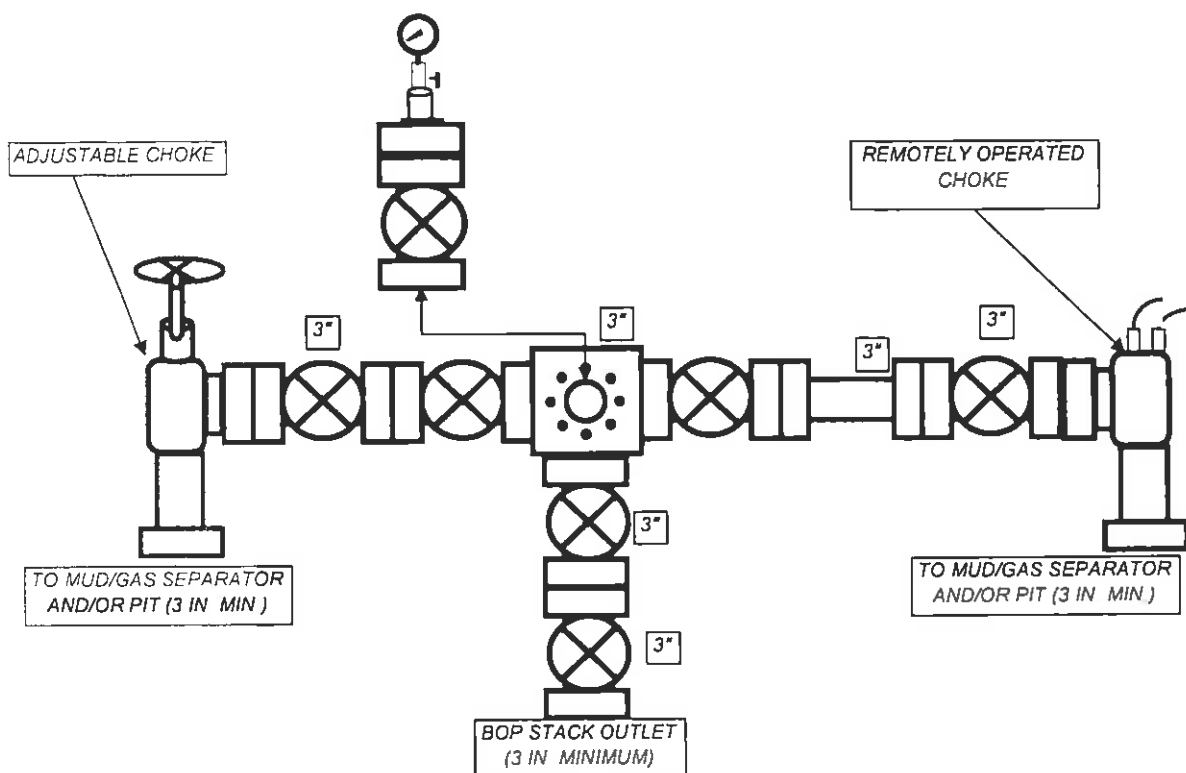
BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





February 2, 2012

Ms. Diana Mason – Petroleum Technician
STATE OF UTAH DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: **Exception Location – WASATCH #5H-1-46 BTR – Blacktail Ridge Area**
Surface Location: 2,650' FNL, 284' FWL, Lot 5 (SWNW), Section 6-T4S-R5W
Bottom Location: 1,980' FNL, 700' FWL, SWNW, Section 1-T4S-R6W
Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation ("BBC") hereby submits an exception location letter in accordance with Oil & Gas Conservation Order #139-84, requesting an exception well location, supported by the following information:

- The location is within our Blacktail Ridge Area.
- BBC is requesting an exception to Spacing Order #139-84 by drilling multiple well bores from a single well pad where the horizontal wellbore will strictly produce hydrocarbons from the Uteland Butte formation and the other vertical wellbore will produce from formations excluding the Uteland Butte. This well configuration results in the wellbores being closer than the 1,320 feet allowed by spacing order.
- This will allow for a more efficient drainage of the reservoir formation being targeted.
- The exception location is due to topography requirements and to minimize surface disturbance.
- BBC certifies that it is the working interest owner along with Ute Energy, LLC (who also consent to this exception location request), and together we own 100% of the working interest within 460 feet of the proposed well location.
- Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests the Division grant this exception to the locating, siting and spacing requirements of Order #139-84. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

A handwritten signature in blue ink that reads 'David Watts' with a stylized flourish at the end.

David Watts
Landman

dwatts@billbarrettcorp.com

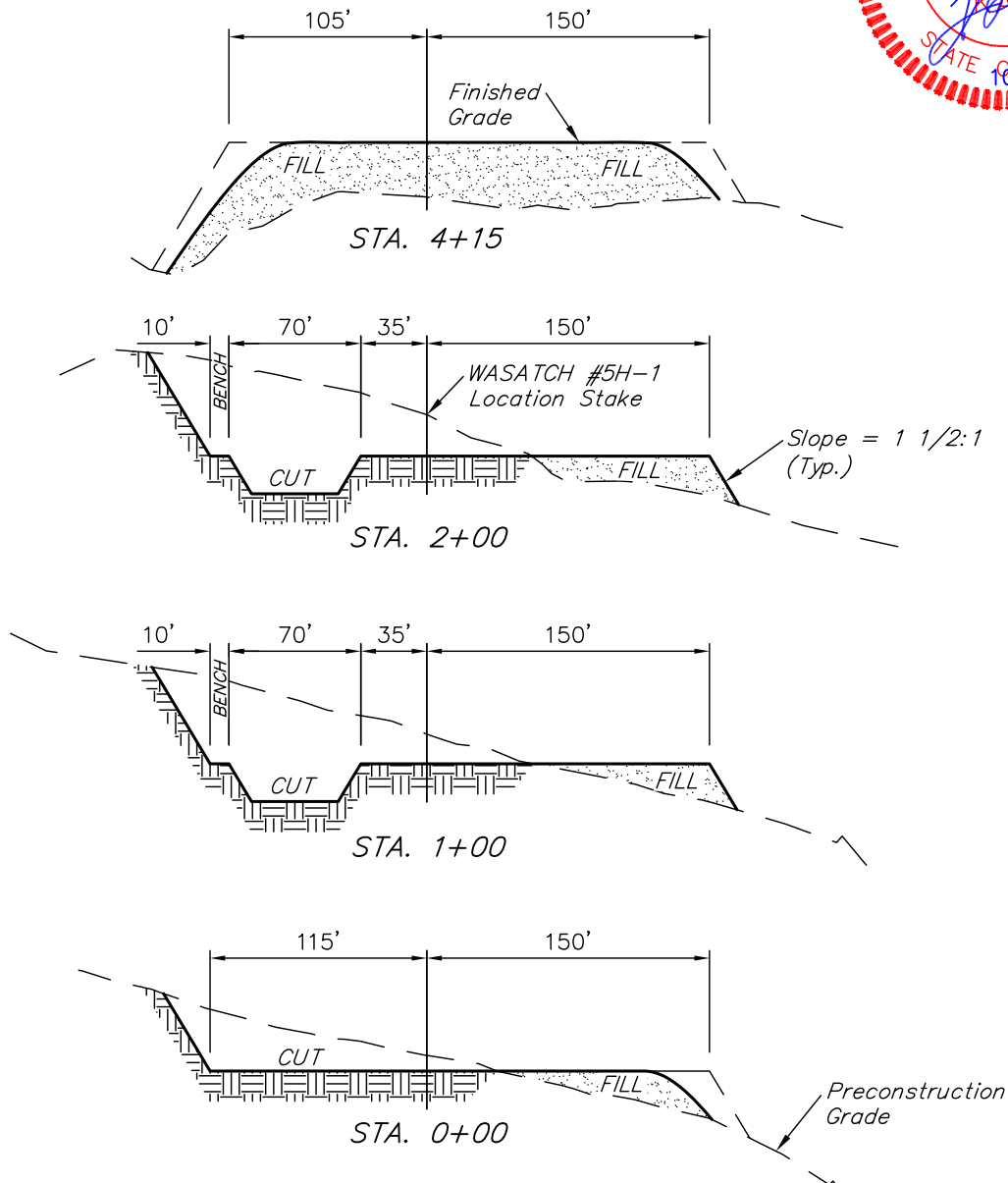
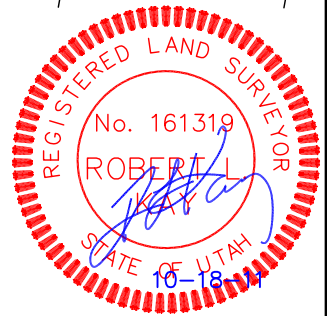
BILL BARRETT CORPORATION**TYPICAL CROSS SECTIONS FOR**

#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6

FIGURE #2

X-Section
Scale
1" = 40'
1" = 100'

DATE: 12-22-10
DRAWN BY: S.B.
REV: 07-28-11
REV: 10-12-11

**NOTE:**

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

*** NOTE:**
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 5,420 Cu. Yds.
Remaining Location = 22,310 Cu. Yds.
TOTAL CUT = 27,730 CU.YDS.
FILL = 20,390 CU.YDS.

EXCESS MATERIAL = 7,340 Cu. Yds.
Topsoil & Pit Backfill = 7,340 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 0 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: February 02, 2012



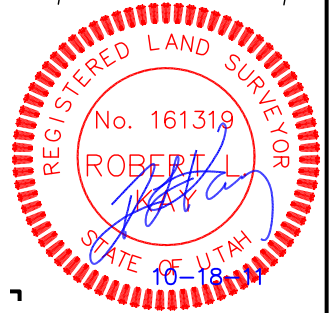
SCALE: 1" = 60'
 DATE: 12-22-10
 DRAWN BY: S.B.
 REV: 07-28-11
 REV: 10-12-11

BILL BARRETT CORPORATION

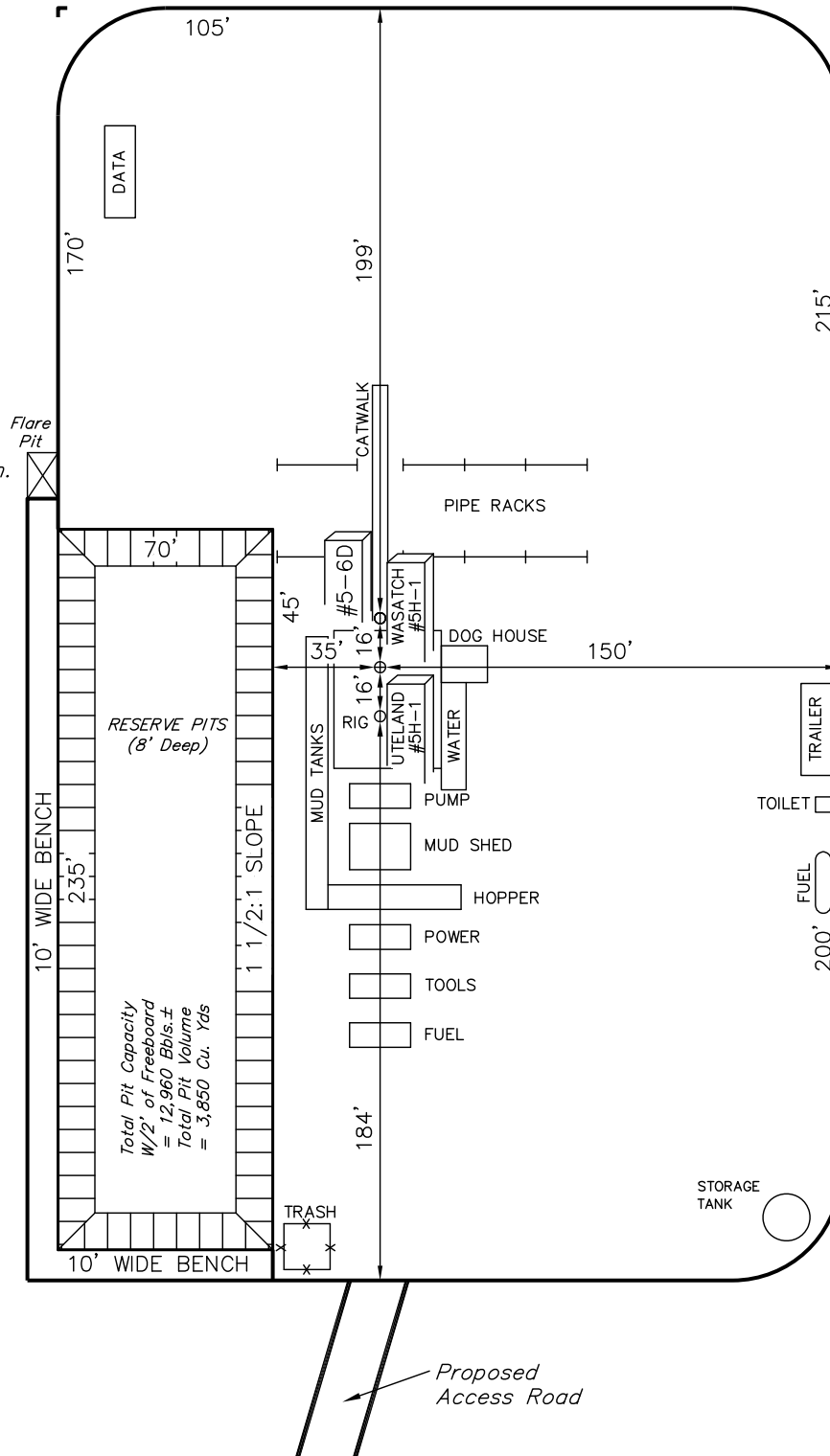
TYPICAL RIG LAYOUT FOR

#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
 UTELAND BUTTE #5H-1-46 BTR
 SECTION 6, T4S, R5W, U.S.B.&M.
 LOT 5 & LOT 6

FIGURE #3



NOTE:
 Flare Pit is to
 be located a min.
 of 100' from the
 Well Head.



UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

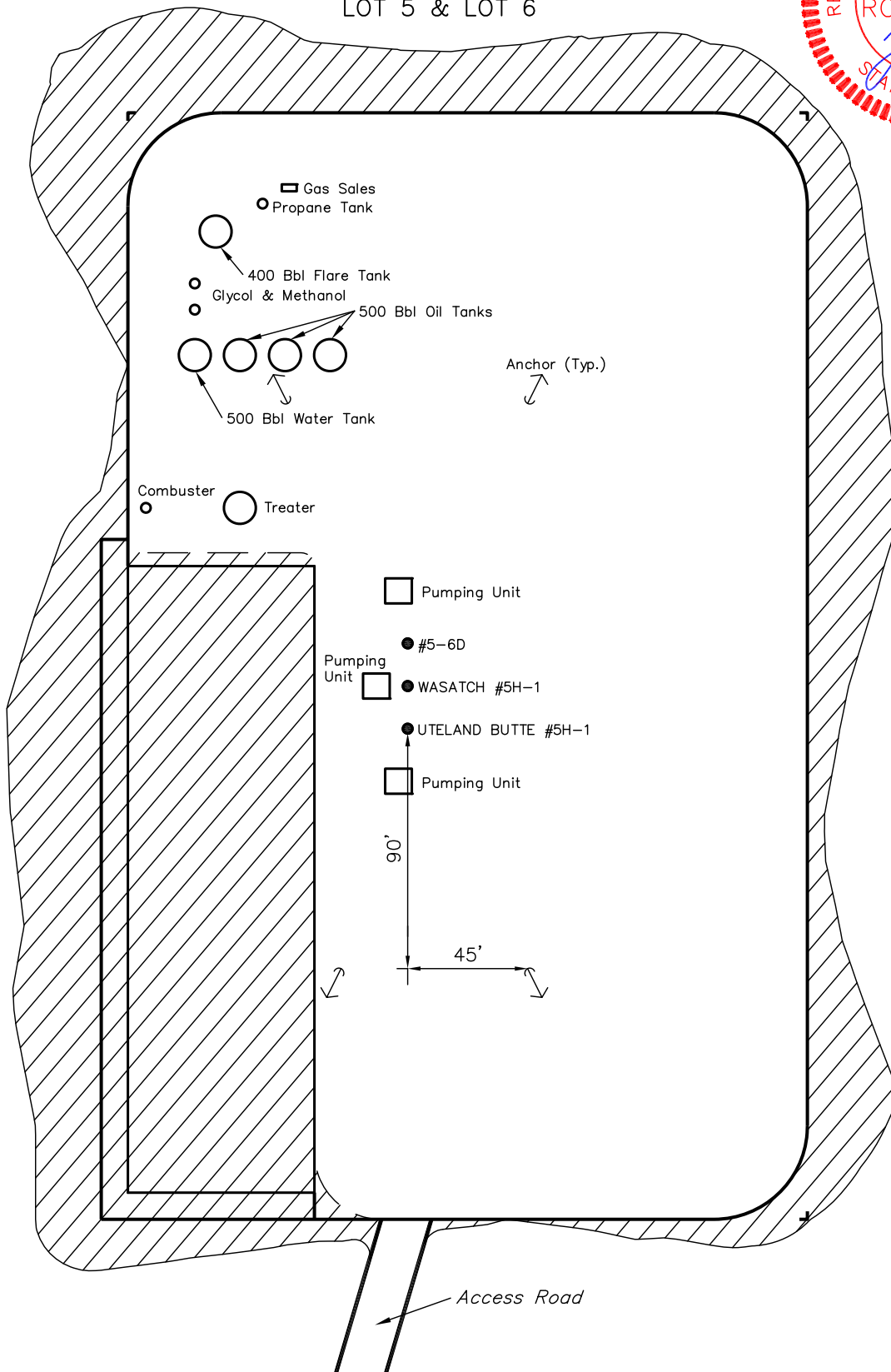
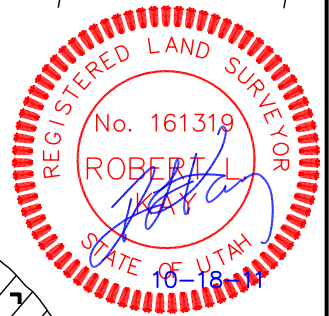
RECEIVED: February 02, 2012

BILL BARRETT CORPORATION**INTERIM RECLAMATION PLAN FOR**

**#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6**

FIGURE #4

SCALE: 1" = 60'
DATE: 07-28-11
DRAWN BY: S.B.
REV: 10-12-11

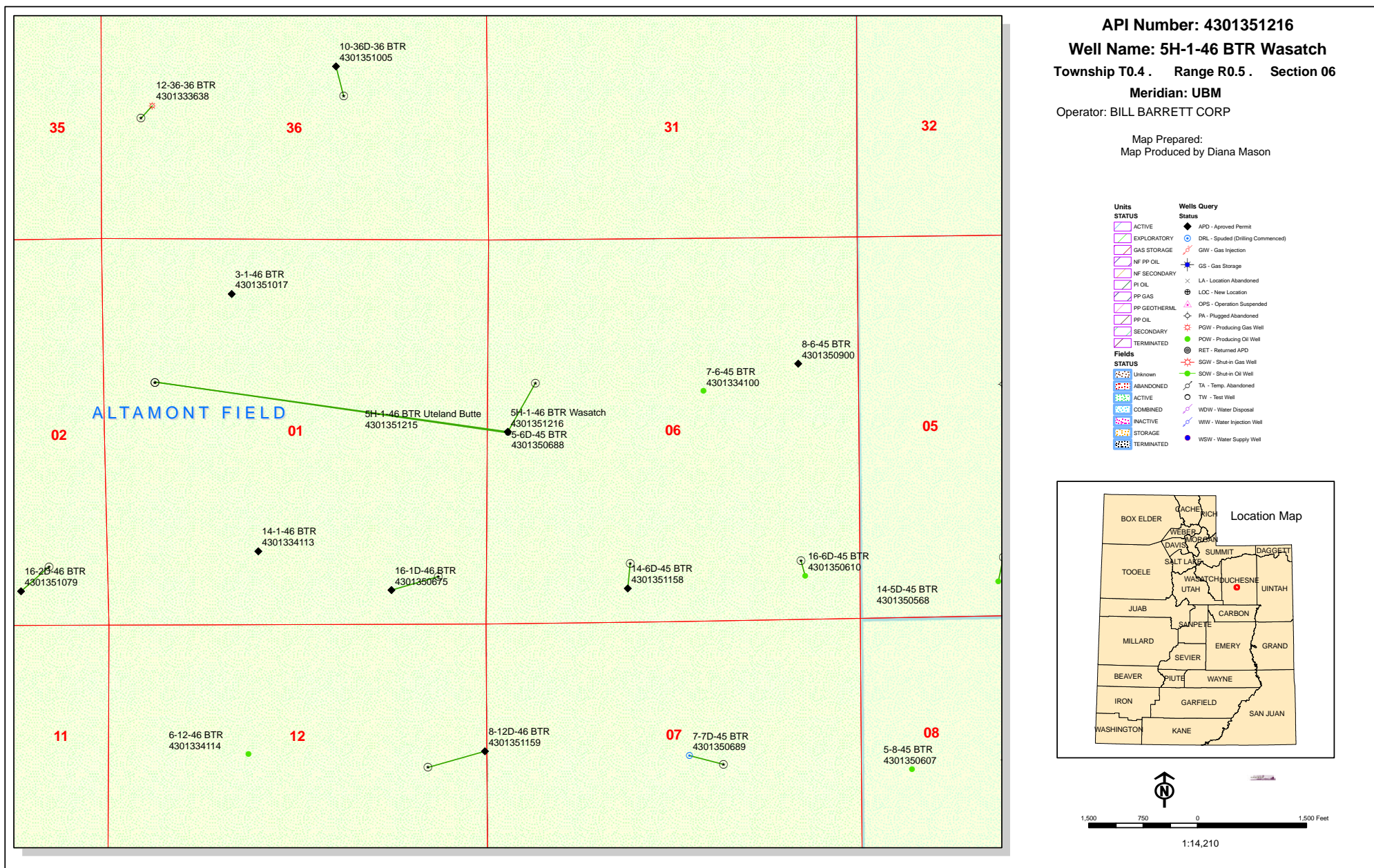


INTERIM RECLAMATION

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 2.007 ACRES

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: February 02, 2012



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/2/2012

API NO. ASSIGNED: 43013512160000

WELL NAME: 5H-1-46 BTR Wasatch

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SWNW 06 040S 050W

Permit Tech Review: ☒

SURFACE: 2650 FNL 0284 FWL

Engineering Review: ☐

BOTTOM: 1980 FNL 0700 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.16184

LONGITUDE: -110.50102

UTM SURF EASTINGS: 542492.00

NORTHINGS: 4445839.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: INDIAN - LPM8874725
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 43-180
- ☐ RDCC Review:
- ☐ Fee Surface Agreement
- ☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit:
- ☐ R649-3-2. General
- ☐ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: Cause 139-84
- Effective Date: 12/31/2008
- Siting: 660' Fr Drl U Bdry & 1320' Fr Other Wells
- ☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
27 - Other - bhill

RECEIVED: February 15, 2012



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 5H-1-46 BTR Wasatch
API Well Number: 43013512160000
Lease Number: 2OG0005608
Surface Owner: INDIAN
Approval Date: 2/15/2012

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas

API Well No: 43013512160000

website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5H-1-46 BTR Wasatch
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. API NUMBER: 43013512160000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/26/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Confidential Status"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BBC hereby requests this well to be held in confidential status.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 02, 2012

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A		DATE 4/26/2012

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FEB 03 2012FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 2OG0005608
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 5H-1-46 BTR WA'
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 13-013-51216
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface Lot 5 2650FNL 284FWL 40.161936 N Lat, 110.501011 W Lon At proposed prod. zone SWNW 1980FNL 700FWL 40.163819 N Lat, 110.518481 W Lon		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 11.3 MILES SOUTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T4S R5W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 700' (BOTTOM HOLE)	16. No. of Acres in Lease 52428.45	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 4523'	19. Proposed Depth 12356 MD 7580 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5941 GL	22. Approximate date work will start 06/01/2012	17. Spacing Unit dedicated to this well 640.00
		20. BLM/BIA Bond No. on file WYB000040
		23. Estimated duration 60 DAYS (D&C)

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 02/02/2012
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 11 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #129970 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 02/15/2012 (12LBR0211AE)

NOTICE OF APPROVAL

UDOGM

RECEIVED

JUN 21 2012

DIV. OF OIL, GAS & MINING

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

171BR0211AS

NO NOS-



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Bill Barrett Corporation
Well No: 5H-1-46 BTR WB
API No: 43-013-51216

Location: Lot 5, Sec. 6, T4S, R5W
Lease No: 20G0005608
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Additional Stipulations:

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY11-Q3-053 for additional mitigation measures that must be followed for the proposed road and pipeline. There are also site specific COAs of concern towards the back of that document that must be adhered to.

General Conditions of Approval:

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should

cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from intermediate casing depth to TOC.
- Cement for the surface casing will be circulated to the surface.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

CONFIDENTIAL

SUBMIT AS EMAIL

Print Form

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling
Submitted By Venessa Langmach Phone Number 303-312-8172
Well Name/Number 5H-1-46 BTR #1B Wa-satch
Qtr/Qtr SWNW Section 6 Township 4S Range 5W
Lease Serial Number 1420H626296
API Number 4301351216

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 09/14/2012 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

SEP 12 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/14/2012			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 This well was spud by Triple A Drilling on 9/14/2012 at 11:00 am.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 September 28, 2012

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 9/25/2012	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Bill Barrett Corporation Operator Account Number: N 2165
Address: 1099 18th Street, Suite 2300
city Denver
state CO zip 80202 Phone Number: (303) 312-8172

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350688	5-6D-45 BTR		SWNW	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18726</u>	<u>9/13/2012</u>			<u>9/27/2012</u>	
Comments: Spudding Operation was conducted by Triple A Drilling @ 9:00 am. <u>GR-WS BHL: SWNW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351216	5H-1-46 BTR Wasatch		SWNW	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18727</u>	<u>9/14/2012</u>			<u>9/27/2012</u>	
Comments: Spudding Operation was conducted by Triple A Drilling @ 11:00 am. <u>WSTC BHL: S1 R6W SWNW</u>							

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Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351215	5H-1-46 BTR Uteland Butte		<u>NWSW</u>	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18728</u>	<u>9/15/2012</u>			<u>9/27/2012</u>	
Comments: Spudding Operation was conducted by Triple A Drilling @ 12:00 pm. <u>GRRV BHL: S1 R6W SWNW</u>							

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ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

9/25/2012

Date

SEP 26 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/30/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Well spud 9/14/2012; no other September 2012 monthly drilling activity to report.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 05, 2012

NAME (PLEASE PRINT) Megan Finnegan	PHONE NUMBER 303 299-9949	TITLE Permit Analyst
SIGNATURE N/A	DATE 10/2/2012	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 5H-1-46 BTR WA
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
Lease Serial Number 20G0005608
API Number 43-013-51216-00-X1

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

RECEIVED

NOV 06 2012

DIV. OF OIL, GAS & MINING

Date/Time 11-5-12 13:00 AM ☐ PM ☒

Remarks Times are estimated

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 5H-1-46 BTR WA
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
Lease Serial Number 20G0005608
API Number 43-013-51216-00-X1

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _ _ _ _ _ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED

NOV 08 2012

DIV. OF OIL, GAS & MINING

Date/Time 11-4-12 10:00 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time 11-5-12 01:00 AM ☒ PM ☐

Remarks Times are estimated

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013512160000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2012			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

No October 2012 monthly drilling activity to report.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 08, 2012

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 11/7/2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
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2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013512160000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
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		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

November 2012 monthly drilling activity report is attached.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 December 03, 2012

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 12/3/2012

**5H-1-46 TW BTR 11/1/2012 21:00 - 11/2/2012 06:00**

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	6.00	03:00	1	RIGUP & TEARDOWN	Prepare & Skid rig. Rurt.
03:00	1.00	04:00	14	NIPPLE UP B.O.P	N/U riser, flow line. Rig on daywork @ 03:00.
04:00	1.00	05:00	20	DIRECTIONAL WORK	P/U dir tools.
05:00	1.00	06:00	2	DRILL ACTUAL	Drill 80' - 150'.

5H-1-46 TW BTR 11/2/2012 06:00 - 11/3/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	Drill 150' - 176'.
07:30	1.50	09:00	20	DIRECTIONAL WORK	P/U dir tools, Scribe toolface.
09:00	8.50	17:30	2	DRILL ACTUAL	Drill/Slide 176' - 586'. Wob 5k, rpm 45/85, spp 1300 psi, dp 300 psi, rop 48 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/Slide 586' - 1432'. Wob 5k, rpm 45/85, spp 1300 psi, dp 300 psi, rop 73 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 TW BTR 11/3/2012 06:00 - 11/4/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	Drill/Slide 1432' - 2096'. Wob 15k, rpm 55/99, gpm 585, spp 1300 psi, dp 300 psi, rop 78 fph.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig Service.
15:00	10.50	01:30	2	DRILL ACTUAL	Drill/Slide 2096' - 2511'. Wob 15k, rpm 55/99, gpm 585, spp 1300 psi, dp 300 psi, rop 40 fph.
01:30	1.00	02:30	5	COND MUD & CIRC	Sweep hole, C&C f/ csg.
02:30	4.50	07:00	6	TRIPS	TOH. L/D dir tools.

5H-1-46 TW BTR 11/4/2012 06:00 - 11/5/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	HSM. R/U Frank's Westates, run 9 5/8", 36#, J-55, ST&C Csg as follows: Float shoe, 1 jt casing, Float collar, 56 jts csg. Tagged @ 2511', set @ 2508'. R/D casers. Bottom 4 couplings welded.
10:00	2.00	12:00	5	COND MUD & CIRC	C&C f/ cement. R/U HES cementers.
12:00	2.50	14:30	12	RUN CASING & CEMENT	HSM. Cement well as follows: Press test lines to 3000 #. Pump 20 bbls H2O, 40 bbls Superflush, 20 bbls H2O. Mix and pump 169 bbls(300 sx) lead cement @ 11 ppg, 3.16 yld, 19.48 gps H2O. Tail in w/56 bbls(235 sx) cement @ 14.8 ppg, 1.33 yld, 6.31 gps H2O. Wash up on plug, displace w/ 190.6 bbls 8.9 ppg drilling mud. Full returns, returned 80 bbls to surface. Reciprocated pipe during cementing. Max press 580 psi, bump plug to 1000 psi. Plug landed @ 14:30.
14:30	3.50	18:00	13	WAIT ON CEMENT	Cement fell 4' in 1 hr. R/D HES. WOC.
18:00	3.00	21:00	14	NIPPLE UP B.O.P	Lift riser, cut csg. Weld on 11" X 9 5/8" 5K SOW Csg Head.
21:00	2.50	23:30	14	NIPPLE UP B.O.P	NUBOPE.
23:30	2.50	02:00	15	TEST B.O.P	Test Bop. Short test - Test blind rams, choke line, manifold, super choke to 2500 psi high, 250 psi low. Test surf csg to 1500 psi f/30 minutes.
02:00	2.00	04:00	20	DIRECTIONAL WORK	Install wear bushing. P/U and orient 6" dir tools.
04:00	2.00	06:00	6	TRIPS	Tih. Tag cmt @ 2451'.

5H-1-46 TW BTR 11/5/2012 06:00 - 11/6/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	21	Drill cmt	Drill cmt, float equip & 20' new hole to 2531'.
07:00	0.50	07:30	21	F.I.T.	Perform FIT to 145 psi for 10 ppg emw.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:30	4.00	11:30	2	DRILL ACTUAL	Drill 2531' - 2810'.
11:30	4.00	15:30	6	TRIPS	TOH. Bop drill.
15:30	2.00	17:30	15	TEST B.O.P	Test BOP. Test lower kelly valve, dart, safety, inside valves, hcr, pipe rams to 5000 psi high, 250 psi low.
17:30	3.00	20:30	6	TRIPS	Install wear bushing. Tih.
20:30	6.00	02:30	2	DRILL ACTUAL	Drill/Slide 2810' - 3355'. Wob 15k, rpm 50/99, spp 2000 psi, dp 250 psi, rop 91 fph.
02:30	1.00	03:30	21	OPEN	Circulate gas out, raise mw f/9 ppg to 9.2 ppg.
03:30	2.00	05:30	2	DRILL ACTUAL	Drill/Slide 3355' - 3517'. Wob 15k, rpm 47/99, gpm 585, spp 2200 psi, dp 250 psi, rop 81 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 TW BTR 11/6/2012 06:00 - 11/7/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill/Slide 3517' - 5222'. Wob 22k, rpm 48/99, gpm 585, spp 2300 psi, dp 250 psi, rop 71 fph.

5H-1-46 TW BTR 11/7/2012 06:00 - 11/8/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 5222' - 5697'. Wob 20k, rpm 48/99, gpm 585, spp 2300 psi, dp 250 psi, rop 42 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/Slide 5697' - 6073'. Wob 20k, rpm 48/99, gpm 585, spp 2350 psi, dp 150 psi, rop 33 fph. Inc 5.84*, Az 326.52 @ 6011' - 9.07' high and 4.07' right of plan
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. Bop drill both tours.

5H-1-46 TW BTR 11/8/2012 06:00 - 11/9/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 6073' - 6641'. Survey @ 6579 5.58* inc. 322.79* az. MW 9.2#/gal 45 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP.
18:00	10.00	04:00	2	DRILL ACTUAL	Drill/slide 6641-7090'. Survey @ 7020 4.65* inc 270.18* az. MW 9.3#/gal 51 vis
04:00	1.50	05:30	5	COND MUD & CIRC	Circulate clean. Do flow check. Pump dryjob.
05:30	1.00	06:30	6	TRIPS	Begin TOH

5H-1-46 TW BTR 11/9/2012 06:00 - 11/10/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	5	COND MUD & CIRC	4500 units gas. Clrc and condition. Raise mud wt to 9.4#/gal gas down to 500 units. Do flow check. No flow. Pump dryjob.
07:30	10.50	18:00	6	TRIPS	TOH. Laydown 6" collars. Reconfigure BHA for drilling curve.
18:00	5.00	23:00	6	TRIPS	TIH
23:00	20.00	19:00	1		Log in from 6800' with Gamma-Ray
19:00	1.00	20:00	2	DRILL ACTUAL	Drig/sliding 7090-7105'. lost returns
20:00	5.00	01:00	5	COND MUD & CIRC	Lost app 350 bbls. Pump lcm pill. build volume. Regained returns. Build volume and raise lcm content to 20%.

5H-1-46 TW BTR 11/10/2012 06:00 - 11/11/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	2	DRILL ACTUAL	Drill/slide 7107-7397'. 290' in 12 hrs 22.3 fph. Survey @ 7350' MD 7276.41 TVD 27.04* INC 276.34 AZ. mw 9.5#/gal 46 vis.
18:00	0.50	18:30	7	LUBRICATE RIG	Rig service, function test BOP.
18:30	11.50	06:00	2	DRILL ACTUAL	survey at 7508 MD, 7405.10 TVD 41.94* inc 275.76 azi. +N/-S 691.76, +E/-W -554.21 app 39' above line. M/W 9.7#/gal 52 vis.

5H-1-46 TW BTR 11/11/2012 06:00 - 11/12/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drlg/sliding 7650-7669'. Survey @ 7572' md (tvd 7450.56) 46.8* inc, 269.86 az. +N/-S 963.9 +E/-W -600.97. MW 9.7+. Cannot get weight to bit while sliding. Prep to TOH and reconfigure BHA. Lost returns.
08:00	7.50	15:30	5	COND MUD & CIRC	Mix and pump LCM. Build volume. Spot LCM pill on bottom. Regained circ while spotting pill. TOH to 6924'. Circ bottoms up.
15:30	4.00	19:30	6	TRIPS	TOH to reconfigure BHA.
19:30	3.00	22:30	20	DIRECTIONAL WORK	Reconfigure BHA. P/U new Smith FHI 20 (517x) Dir eq. 30 jts 4.5" 16.6# drillpipe. 42 jts 42# HWDP.
22:30	1.00	23:30	9	CUT OFF DRILL LINE	Slip & cut drlg line
23:30	0.50	00:00	7	LUBRICATE RIG	Rlg service. Function test BOP.
00:00	3.50	03:30	6	TRIPS	TIH to 6824'. filling every 15 stds.
03:30	1.00	04:30	5	COND MUD & CIRC	Circulate and cut MW.

5H-1-46 TW BTR 11/12/2012 06:00 - 11/13/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	Circ and cut MW back to 9.5#
06:30	1.50	08:00	3	REAMING	Wash & ream thru curve.
08:00	17.00	01:00	2	DRILL ACTUAL	Drlg slide 7669-7944' 275 in 17 hrs. Survey @ 7905md (7619.94 tvd) 76.31* inc. 277.17* az Got sticky and having trouble getting wt to bit. Mix lube and EZ drill. Continue to work pipe and slide.
01:00	0.50	01:30	7	LUBRICATE RIG	Rig service, function test BOP
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/slide 7944-8015 Survey @ 7905 76.31* inc 277.17 az +N/-S 710.64 +E/-w -882.22. MW 9.8#/gal 55 vis.

5H-1-46 TW BTR 11/13/2012 06:00 - 11/14/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	Drill/Slide 8015' - 8052'.
09:00	1.50	10:30	5	COND MUD & CIRC	C&C, sweep hole.
10:30	7.00	17:30	6	TRIPS	Toh. Reamed to 6900'.
17:30	0.50	18:00	20	DIRECTIONAL WORK	L/D Dir tools.
18:00	12.00	06:00	3	REAMING	P/U Bull nose hole opener, 2 reamers, tih, Reaming as needed(F/7100' to TD).

5H-1-46 TW BTR 11/14/2012 06:00 - 11/15/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	3	REAMING	Ream last 100' of hole.
08:00	1.50	09:30	5	COND MUD & CIRC	C&C, sweep hole.
09:30	1.50	11:00	6	TRIPS	Pump 12 stds out of hole to top of curve. Pump slug, blow down kelly.
11:00	2.00	13:00	6	TRIPS	Lddp. Pragma broke.
13:00	6.50	19:30	8	REPAIR RIG	Tripped into shoe while repairing pragma.
19:30	0.50	20:00	7	LUBRICATE RIG	Rig Service.
20:00	4.50	00:30	8	REPAIR RIG	Repair pragma.
00:30	1.00	01:30	8	REPAIR RIG	Tih(caused by downtime).

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:30	1.00	02:30	6	TRIPS	Lddp. Pulled reamer into rot rubber. Pulled bolts out of annular.
02:30	3.50	06:00	8	REPAIR RIG	Repair and replace damage caused by running into rubber.

5H-1-46 TW BTR 11/15/2012 06:00 - 11/16/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	8	REPAIR RIG	Repair flow line and dresser sleeve.
10:00	1.00	11:00	12	RUN CASING & CEMENT	HSM. R/U Casers while working on flowline. Decided to make 2nd reamer trip, R/D Casers.
11:00	19.00	06:00	8	REPAIR RIG	Install wear bushing. Tried to get rot head bearing off of reamer, couldn't(already had replacement reamer on the way). Rack & tally 4" DP & reamer assbly, tih to make 2nd reamer run. Out of the hole too long, Trip and subsequent reaming charged to Nabors. Light reaming to 7800'.

5H-1-46 TW BTR 11/16/2012 06:00 - 11/17/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	8	REPAIR RIG	Finish reaming to 8052'. Double reamed last 150'. Hole sticky.
08:00	2.00	10:00	8	REPAIR RIG	Sweep hole twice, C&C f/csg.
10:00	8.00	18:00	8	REPAIR RIG	Pump pipe out of curve to 6800', pump slug, toh.
18:00	12.00	06:00	12	RUN CASING & CEMENT	Pull wear bushing. HSM. R/U Frank's to run 7", 26#, P-110, Lt&c csg. Details on next report.

5H-1-46 TW BTR 11/17/2012 06:00 - 11/18/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	12	RUN CASING & CEMENT	Finish running 7", 26#, P-110 Csg as follows: Float shoe, 2 jts csg, float collar, 184 jts csg. Landed @ 7927'(125' short of td). R/D casers.
18:00	5.00	23:00	12	RUN CASING & CEMENT	HSM. R/U Halliburton cementers. Cement well as follows: Press test to 5000 psi. Pump 40 bbls superflush @ 10 ppg, 10 bbls H2O, mix and pump 225 bbls(545 sx) lead cmt @ 11 ppg, 2.32 yld, 10.61 gps H2O. mix and pump 87 bbls(345 sx) tail cmt @ 13.5 ppg, 1.42 yld, 6.65 gps H2O. Drop plug, wash up on plug. Pump 304 bbls mud @ 9.8 ppg. Max press 2200 psi(pressured up a couple times), final press 1400 psi. No returns throughout job. Bump plug to 2000 psi, floats held, bled back 2 bbls. R/D Halliburton.
23:00	4.00	03:00	14	NIPPLE UP B.O.P	Break bottom flange, lift stack. Set slips on 7" csg, cut off, set weldment.
03:00	2.00	05:00	14	NIPPLE UP B.O.P	NUBOP.
05:00	1.00	06:00	15	TEST B.O.P	Test Blinds to 5000 psi/high, 250 psi/low. Test csg to 1500 psi for 30 minutes.

5H-1-46 TW BTR 11/18/2012 06:00 - 11/19/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	7	LUBRICATE RIG	Rig Service - X/O I-Bop.
07:00	6.00	13:00	20	DIRECTIONAL WORK	Rack and Tally Dir tools, P/U tools, make up bit.
13:00	4.50	17:30	6	TRIPS	Tih. Tagged cmt @ 7775'.
17:30	12.50	06:00	5	COND MUD & CIRC	C&C mud, add spike fluid for 2% Kcl. Mud clabbered up, trying to break it back so we can pump it and drill.

5H-1-46 TW BTR 11/19/2012 06:00 - 11/20/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	5	COND MUD & CIRC	Finish building mud for horizontal section.
07:00	6.50	13:30	21	OPEN	Drill cmt & ft equip. Clean out rathole to 7959'. Bit plugged.
13:30	6.50	20:00	6	TRIPS	Toh. X/O bit, mm.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
20:00	5.00	01:00	6	TRIPS	Tih. Start washing to bottom @ 7915'.
01:00	5.00	06:00	21	OPEN	Clean out rathole to 8052'.

5H-1-46 TW BTR 11/20/2012 06:00 - 11/21/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	20	DIRECTIONAL WORK	Trouble shoot tools, had bad connection.
06:30	10.50	17:00	2	DRILL ACTUAL	Drill/Slide 8052' - 8276'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 21 fph. 91.68*, 275.74 az @ 8203'. Bop Drill.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig Service.
17:30	2.50	20:00	2	DRILL ACTUAL	Drill/Slide 8276' - 8339'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 25 fph. 94.61*, 273.87 az @ 8330'.
20:00	2.00	22:00	20	DIRECTIONAL WORK	Work on Mwd computer.
22:00	2.50	00:30	2	DRILL ACTUAL	Drill/Slide 8339' - 8390'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 25 fph. 94.80*, 273.87 az @ 8361'.
00:30	1.00	01:30	7	LUBRICATE RIG	Rig Service. Work on top drive.
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/Slide 8390' - 8521'. Wob 10-25k, rpm 70/72, spp 2600 psi, dp 280 psi, rop 29 fph. 94.91*, 272.90 az @ 8393'. Bop Drill.

5H-1-46 TW BTR 11/21/2012 06:00 - 11/22/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/Slide 8521' - 8717'. 90.27*, 268.02 az, 1707.33 vs @ 8645' md/7594.66' tvd.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	2.50	18:00	20	DIRECTIONAL WORK	Rebooting MWD computer.
18:00	2.00	20:00	6	TRIPS	Pull into shoe to work on rig(brake sensors).
20:00	7.50	03:30	8	REPAIR RIG	Troubleshoot /adjust SCR/Electrical brake resistor/chopper failure. Tih.
03:30	1.00	04:30	20	DIRECTIONAL WORK	Troubleshoot connection to doghouse.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/Slide 8717' - 8749'.

5H-1-46 TW BTR 11/22/2012 06:00 - 11/23/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill/Slide 8749' - 8939'. 92.18*, 267.06 az, @ 8867' md/7591.57 tvd.
14:00	1.00	15:00	7	LUBRICATE RIG	Rig Service. Adjust brake resistor.
15:00	1.50	16:30	21	OPEN	Standpipe and diff pressure too high. Rotate & reciprocate to free. Actuated I-Bop, cleared problem up.
16:30	13.50	06:00	2	DRILL ACTUAL	Drill/Slide 8939' - 9318'. 92.86*, 269.72 az, @ 9214' md/7568' tvd. .29' high, 5' rt of plan.

5H-1-46 TW BTR 11/23/2012 06:00 - 11/24/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/Slide 9318' - 9507'. Having trouble getting weight to bit - increased lube, running lubra-bead sweeps.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service.
16:00	2.00	18:00	2	DRILL ACTUAL	Drill/Slide 9507' - 9539'. 93.83*, 272.46 az @ 9467'/7553.75'. 3.29' high, 19.29' right of plan.
18:00	1.00	19:00	5	COND MUD & CIRC	Sweep hole, C&C f/trip.
19:00	2.50	21:30	6	TRIPS	Backream to shoe.
21:30	8.50	06:00	6	TRIPS	Toh. L/D mm, bit.

**5H-1-46 TW BTR 11/24/2012 06:00 - 11/25/2012 06:00**

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	20	DIRECTIONAL WORK	P/U new mm, bit, dir tools. Orient tools.
09:00	2.00	11:00	6	TRIPS	Tih.
11:00	1.00	12:00	21	OPEN	Cut and slip drilling line.
12:00	3.50	15:30	6	TRIPS	Finish tih. Circ to bottom f/shoe.
15:30	12.50	04:00	2	DRILL ACTUAL	Drill/Slide 9539' - 9886'. Increased lube to 4%.
04:00	0.50	04:30	7	LUBRICATE RIG	Rig Service.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/Slide 9886' - 9917'. 93.39*, 268.59 az @ 9782'/7535.36', 2830 VS. Target # 5 - 7500' TVD @ 3500' VS. 3.21' low, 3.34' right of plan.

5H-1-46 TW BTR 11/25/2012 06:00 - 11/26/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/Slide 9917' - 10183'. Double reaming every connection. Not able to slide - excessive torque trying to get to bottom, taking excessive weight.
15:00	1.50	16:30	5	COND MUD & CIRC	Stand back 1 stand, ream and backream hole. Send 40 vis sweeps followed by 56 vis sweeps, add lube.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	4.00	21:00	2	DRILL ACTUAL	Drill/Slide 10183' - 10219'. Rig brakes failed.
21:00	9.00	06:00	8	REPAIR RIG	Work to get brakes to reset. Able to circ and rotate, but can't pick up off bottom. Ran low then high vis sweep, cleared sweep and kicked pump in and rotated twice an hour while waiting on electrician(not here at report time). 94.7*, 266.67 az, 3140.21' vs @ 10098'/7513.14' - 2.4' low, 2.38' right of plan..

5H-1-46 TW BTR 11/26/2012 06:00 - 11/27/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	8	REPAIR RIG	Wait on electrician. Repair brake electric.
09:30	0.50	10:00	3	REAMING	W&R hole, pump sweep.
10:00	5.00	15:00	2	DRILL ACTUAL	Drill/Slide 10219' - 10359'.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	13.50	05:00	2	DRILL ACTUAL	Drill/Slide 10359' - 10644'.
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.
05:30	0.50	06:00	2	DRILL ACTUAL	Drill/Slide 10644' - 10660'. 93.39*, 266.67 az, 3572.9 vs @ 10540'/7481.17' - .81' high. 6.98' left of plan. BOP drill both tours. Sliding better w/increased lube(4%) and higher kcl(4%).

5H-1-46 TW BTR 11/27/2012 06:00 - 11/28/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/Slide 10660' - 10927'.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service.
16:30	13.00	05:30	2	DRILL ACTUAL	Drill/Slide 10927' - 11306'. 92.28*, 267.72 az, 4162.96' vs @ 11140'/7455.23' - 4.9' low, 5.58' left of plan.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. BOP drill both tours.

5H-1-46 TW BTR 11/28/2012 06:00 - 11/29/2012 06:00

API/UWI 43013512160000	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	Slide 11306' - 11314'. Taking too much weight and torque to get to bottom.
07:00	3.00	10:00	3	REAMING	W&R up to 10926'. Sweep hole w/low vis then high vis sweeps.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	11.50	21:30	2	DRILL ACTUAL	Drill/Slide 11314' - 11496'.
21:30	0.50	22:00	7	LUBRICATE RIG	Rig Service.
22:00	8.00	06:00	2	DRILL ACTUAL	Drill/Slide 11496' - 11653'. 94.97*, 268.65 az, 4533.81' vs @ 11518'/7435' - 6.98' low, 13.31' left of plan

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Lawrence Lorenzen Phone Number 303-353-5350

Well Name/Number 5H-1-46 BTR WA
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
Lease Serial Number 20G0005608
API Number 43-013-51216-00-X1

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☒ Liner
- ☐ Other

RECEIVED

NOV 28 2012

DIV OF OIL GAS & MINING

Date/Time 11-30-12 22:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Times

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/2/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 December 2012 monthly drilling activity report is attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 January 03, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 1/2/2013	

**5H-1-46 TW BTR 12/1/2012 06:00 - 12/2/2012 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	6	TRIPS	TOH to run liner. Stand back 58 std DP 41 jts WWDP. Lay down 1 jt HWDP that rabbit wouldn't go thru. L/D remaining drillpipe
14:30	8.00	22:30	12	RUN CASING & CEMENT	Rig up weatherford csg crew. HSM Pickup 4 1/2" 11.6# P110 liner, Make up float shoe, 2 jt shoe track, float collar, landing collar, 1 jt, RSI sleeve. Then 112 jts. Fill and check floats, then fill every 10 jts. Pickup Versa-flex liner hanger and rig down csg crew.
22:30	7.50	06:00	12	RUN CASING & CEMENT	Run drillpipe etc from derrick filling and breaking circ every 10 stds. End of Liner @ 11899 and picking up pup jts at report time.

5H-1-46 TW BTR 12/2/2012 06:00 - 12/3/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	12	RUN CASING & CEMENT	TIH with 4.5" liner. Work to bottom. Bottom of liner assembly @ 11921'. Top of PBTR 7020'. Break circulation and circulate 3 bottoms up. Move in and rig up HES cmt and N2. HSM Rig up cmt head etc. Pressure test cmt and N2 lines to 10000#, test casing side to 3000#. Pump 40 bbl Tuned Spacer 111 (12ppg) then 76 bbls (215sks) elastiseal lead cmt @14.3 ppg foamed to 12.5 ppg and 17.72 bbl (50 sks) Elastiseal tail cmt @ 14.3 ppg. Wash pump & lines. Drop drillpipe dart. Displace as follows 75 bbls with cla-web & aldecide for liner followed by 71 bbls mud. Caught wiper plug 67 bbls into displacement Did not bump plug.. Check floats. floats holding. Drop 1.875" ball to shear disc in liner hanger. Allow 45 minutes to fall. Pressure up to set liner hanger. Sheared @ 8000#. Inflate packer. Do 80K overpull test and release from liner top pull up to 6910' and circulate cmt from liner top. Attempt to pressure test liner. Pump 1.5 bpm @ 2000#. Circulate 7" with water with cla-web and aldecide.
20:00	7.00	03:00	13	WAIT ON CEMENT	Close well in and monitor pressure for 4 hrs. Pressure 150# due to heat expansion. Bleed off and check for flow. No flow.
03:00	3.00	06:00	6	TRIPS	LDDP.

5H-1-46 TW BTR 12/3/2012 06:00 - 12/4/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	6	TRIPS	LDDP. well taking correct amount of fluid. L/D liner running tool.
12:00	5.00	17:00	14	NIPPLE UP B.O.P	N/D BOP and remove wear bushing and install hole cover. Prep rig to move. Rig released @ 1700 hrs.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013512160000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/7/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Confidential Status"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BBC requests to hold this well in confidential status.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 11, 2013

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A		DATE 2/7/2013

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

February 2013 monthly drilling report attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 March 05, 2013**

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/5/2013	

**5H-1-46 TW BTR 2/1/2013 06:00 - 2/2/2013 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	IWHD	Install Wellhead	HSM. CHECK PRESSURES. ND NIGHT CAP. INSTALL 7" 10K TBG HEAD. PRESSURE TEST VOID. GOOD. NU NIGHT CAP.

5H-1-46 TW BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	RU SLB. RIH W/ 3.63" GR/JB. 4-1/2" LINER TOP AT 7007'. START STACKING OUT AT 6900'. 3.44" ICL, PULLING 250# OVER AS START POOH. RD SLB AND MOVE OVER.

5H-1-46 TW BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	RMOV	Rig Move	ROAD RIG FROM 13H-33-46 TO LOCATION.
08:00	2.50	10:30	GOP	General Operations	SPOT IN RIG. WAIT ON DEADMEN TO BE SET.
10:30	1.00	11:30	SRIG	Rig Up/Down	RUSU.
11:30	3.00	14:30	BOPI	Install BOP's	ND NIGHT CAP. NU 7" 5 X 7" 10 SPOOL, BOP. MUD CROSS, ANNULAR, STRIPPING HEAD. RU FLOOR. SPOT IN CATWALK AND PIPE RACKS. MOVE IN TBG.
14:30	4.00	18:30	RUTB	Run Tubing	MU 6-1/8" BIT, BIT SUB, 1 JT, 2.31 XN. RIH AS MEAS AND PU 176-JTS TBG. EOT AT 5667'. SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	RUTB	Run Tubing	HSM. 0 PSI. OPEN UP WELL. CONT RIH AS PU 2-7/8" TBG. TAG TOP OF LINER AT 6998' W/ 4' UP #220.
08:00	2.50	10:30	CTU	Clean Out	LAY PMP LINES AND REV CIRC CLEAN WITH 250 BBLs. HAD HEAVY THICK GRAY SLUDGE IN RETURNS.
10:30	2.00	12:30	PULT	Pull Tubing	POOH W/ 220-JTS 2-7/8" TBG. LD 6-1/8" BIT.
12:30	2.50	15:00	RUTB	Run Tubing	MU 3-7/8" BIT, BIT SUB, 1-JT 2-3/8", AND 1.87" XN NIPPLE, RIH AS PU 19-JTS 2-3/8" TBG, X-OVER AND RIH W/ 200-JTS 2-7/8" TBG. WENT THRU 4-1/2" LT AT 6998' WITH TAG AND DROP. CONT RIH TO 7614' WITH BIT. (49" INC)
15:00	1.00	16:00	CTU	Clean Out	REV CIRC WITH 100 BBLs. HAD SOME GRAY SLUDGE THEN CAME CLEAN.
16:00	2.00	18:00	PULT	Pull Tubing	POOH W/ 219-JTS 2-7/8" TBG AND 20-JTS 2-3/8". LD 3-7/8" BIT.

5H-1-46 TW BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEK,
07:00	3.00	10:00	RUTB	Run Tubing	SICP 0. MU MILLER 4-1/2" PHD PKR, 1-JT 2-3/8" TBG, XN NIPPLE, 5-JTS 2-3/8" L-80 TBG. X-OVER, AND 219-JTS 2-7/8" TBG. THRU 4-1/2" LT AT 6998' AND SET PKR AT 7164'.
10:00	1.00	11:00	PTST	Pressure Test	PRES TEST DOWN CSG TO LINER LAP TO 2000 PSI FOR 15 MIN. GOOD TEST. BLEED OFF.
11:00	3.00	14:00	PULT	Pull Tubing	RELEASE PKR. POOH AS LD 2-7/8" TBG, X-OVER, 2-3/8" AND PKR.
14:00	3.50	17:30	LOGG	Logging	MIRU SLB. RUN CBL (NO PRESSURE). LOG FROM 7620'. 7620'-7480' FAIR. 7480' TO LINERTOP AT 6998' FAIR TO RATTY. (7") LT - 3948' FAIR. TOC AT 3948'. RD SLB. RD TBG EQUIP. RD SLB.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	0.50	18:00	GOP	General Operations	RD TBG EQUIP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 TW BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	3.50	10:30	GOP	General Operations	SICP 0. X-OUT PIPE RAMS. MOVE CATWALK AND RACKS FOR CSG. UNLOAD 180 -JTS 4-1/2" 11.6# P-110 CSG. MIRU WEATHERFORD CSG CREW.
10:30	6.00	16:30	RUTB	Run Tubing	HSM. MU HES PBR SEAL ASSY. RIH WITH 4-1/2", 11.6#, P-110 CSG MADE UP TO 3020#. STING IN AND LD 3-JTS. SPACE OUT TO LAND IN 40K COMPRESSION. SCREW IN HOLD DOWN PINS. PRES TEST ANNULUS TO 2000 PSI FOR 15 MIN. SOLID. CSG DETAIL KB 24.00 HANGER .75 40K COMPRESSION -2.70 4-1/2" PUP JT 2.95 1-JTS 4-1/2" CSG 42.50 4-1/2" PUP JT 9.40 4-1/2" PUP JT 8.70 4-1/2" PUP JT 3.10 177-JTS 4-1/2" CSG 6905.18 HES NO GO 1.23 (11.81' STUNG INTO PBR) SETTING AT 7005.20
16:30	1.50	18:00	GOP	General Operations	RDMO WEATHERFORD. RD FLOOR. MOVE CATWALD AND RACKS. DRAIN EQUIP. SDFN.

5H-1-46 TW BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	2.00	09:00	IWHD	Install Wellhead	SITP 0, SICP 0. ND BOP. INSTALL 4" 10K X 7" 10K ADAPTER SPOOL, 4-1/16" 10K FRAC VALVES AND FRAC HEAD. TEST SEALS.
09:00	0.50	09:30	SRIG	Rig Up/Down	RDSU.
09:30	20.50	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. READY TO OPEN RSI.

5H-1-46 TW BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 TW BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 TW BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

5H-1-46 TW BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	GOP	General Operations	MIRU HES AND SLB WITH 2 WT BARS AND 4-1/2" HES DUMMY PLUG. HSM.
08:00	2.00	10:00	ACID	Acid Wash/Squeeze	HOOK UP TO ANNULUS. PRES TEST LINES. PUT 2000 PSI ON ANNULUS AND SHUT IN. HOOK UP TO 4-1/2" CSG. PMP 2 BPM TO START PUMPING INTO RSI AT 3116 PSI. START ACID. RATE 5.9 BPM AT 4190 PSI. ACID GONE. RATE AT 7 BPM AT 6100 PSI THEN COME DOWN TO 4822 PSI. RATE 9.6 BPM AT 5956 PSI THEN CAME DOWN TO 4420 PSI. ATTEMPT TO GET 10+ BPM BUT PUMP WOULD HOLD. WITH 155 BBLS DISPLACE HAD PRES SPIKE TO 7200 PSI. SLOW RATE. END RATE AT 8.8 AT 3382 PSI. ISIP 2368 PSI.
10:00	3.00	13:00	WLWK	Wireline	EQUALIZE AND OPEN WELL. START RIH W/ DUMMY PLUG. HAD BALL OF GREASE IN FRAC VALVES. WORK THRU THEN CCL NOT WORKING. POOH AND X -O CCL. EQUALIZE AND OPEN WELL. RIH W/ 4-1/2" DUMMY PLUG. CORALATE TO SLB CBL LOG TO TIE IN TO LT AT 6996'. START PUMPING WITH HES AT 2 BPM AT 2500 PSI - 6 BPM AT 2780. GO TO 8 BPM TO PUMP TOOLS DOWN WHEN QUIT MOVING AT 7878'. SHUT DOWN PUMPS. UNABLE TO COME UP. STUCK TOOLS AT 74° ANGLE OF HEEL.. WORK LINE. NO CHANGE. FLOW BACK SLOW AS WORK LINE. NO CHANGE. SURGE VALVE QUICK. TOOLS CAME FREE. READING CCL. POOH W/ TOOLS. RD SLB AND MOVE HES OVER.
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN WAITING ON COIL TBG.

5H-1-46 TW BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	GOP	General Operations	WAITING ON COIL FROM TW WELL.
20:00	6.00	02:00	CTU	Clean Out	SWING COIL OVER FROM 5H-1-46 UB. NU TO FRAC VALVES. PRES TEST STACK TO 4000. OPEN WELL AND RIH. CIRC AS RIH TO RSI AT 11,791'. PUMP SWEEP. POOH WITH COIL. LD TOOLS. BLOW COIL DRY. RD COIL HEAD. SDFN.
02:00	4.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN WAITING FOR SLB TO MOVE OVER.
17:00	0.50	17:30	BOPI	Install BOP's	MOVE OVER FROM UB. NU BOP. PU 4-1/2" HES DUMMY PLUG.
17:30	2.00	19:30	WLWK	Wireline	HOOK UP HES TO CSG AND PUT 2000 PSI ON ANNULUS. PRES TEST LINE TO 8500 PSI. EQUALIZE 1000 PSI AND OPEN WELL. RIH W/ 4-1/2" DUMMY PLUG TO LINER TOP. CORRELATE TO JTS UNDER LINER TOP AT 7063' AND 7105'. RIH W/ DUMMY PLUG AS PUMP DOWN WITH HES. BEGIN 2 BPM AT 1900 PSI. END 9.9 BPM AT 3400 PSI. RUN PLUG TO 11,785'. POOH W/ DUMMY PLUG.
19:30	2.50	22:00	PFRT	Perforating	PU 3-1/8" PERF GUNS (23 GR, .48 EOD, 36" PENT, 4 SPF) INTO LUBE. EQUALIZE 1000 PSI. RIH AND CORRELATE TO JTS BELOW LT AT 7063' AND 7105'. RIH AS PUMP DOWN WITH HES. BEGIN 2 BPM AT 2200 PSI. END 10 BBPM AT 3450 PSI. SHUT DOWN AT 11,776'. PULL UP AND PERF CR-3 FORM 11,495'-11,757' WITH 60 HOLES IN 15' AS PER DESIGN. POOH. SHUT WELL IN. VERIFY ALL PERFS SHOT. RD SLB AND HES.
22:00	8.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/24/2013 06:00 - 2/25/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MOVE IN AND FILLING FRAC LINE.

5H-1-46 TW BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FILLING FRAC LINE. BACKSIDE MANIFOLD IN. RIVER LOAD OUT SET.

**5H-1-46 TW BTR 2/26/2013 06:00 - 2/27/2013 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FINISH FILLING FRAC LINE. HEAT FRAC LINE.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/5/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 20px;"> This well had first gas sales on 3/5/2013. </div> <div style="text-align: right; padding: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 14, 2013 </div>		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 3/14/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/1/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Attached is the March 2013 Drilling Activity for this well.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 April 05, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 4/5/2013	

**5H-1-46 TW BTR 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	FRAC	Frac. Job	<p>CREW CHANGE. HSM.</p> <p>FRAC STG #3- CR-3 PERFS 10,851'-11,113' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1945 PSI AT 05:47 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 3886 PSI AT 10.1 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3472 PSI. FLUSH W/ 7331 GAL. 37.7 BPM AT 7531 PSI. STAGE XL PAD. STABLE RATE OF 42.8 BPM AT 6566 PSI. ISIP 3274. FG .74. PERFS OPEN 20/60. CONT XL PAD. 53.2 BPM AT 7295 PSI. STAGE TO 1 PPA 20/40 WHITE. 53.2 BPM AT 7327 PSI. ON PERFS 53.2 BPM AT 7333 PSI. STAGE TO 2 PPA 20/40 WHITE. 53.1 BPM AT 7051 PSI. ON PERFS 58.0 BPM AT 6996 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 58.0 BPM AT 6919 PSI. ON PERFS 58.1 BPM AT 6586 PSI. STAGE TO 3 PPA 20/40 WHITE. 58.2 BPM AT 6480 PSI. ON PERFS 58.2 BPM AT 6382 PSI. FLUSH 58.3 BPM AT 6648 PSI. WSI WITH 2800 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3203 FG .88 MAX RATE 58.2 BPM MAX PRES 7347 PSI AVE RATE 56.7 BPM AVE PRES 6774 PSI PMP 140,300 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 24,181 GAL 20# HYBOR G (16) 83,838 GAL (TOTAL FLUID 112,019 GAL) BWTR 2667 BBLs</p>
07:30	2.00	09:30	PFRT	Perforating	<p>PERF STG #4- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2650 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,821' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 10,529'-10,791' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.</p>
09:30	1.50	11:00	FRAC	Frac. Job	<p>FRAC STG #4- CR-3 PERFS 10,529'-10,791' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2089 PSI AT 09:31 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4112 PSI AT 9.4 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3526 PSI. FLUSH W/ 6762 GAL. 38.5 BPM AT 7485 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 44.8 BPM AT 6012 PSI. ISIP 3256. FG .74. PERFS OPEN 24/60. CONT XL PAD. 58.3 BPM AT 7275 PSI. STAGE TO 1 PPA 20/40 WHITE. 58.3 BPM AT 7325 PSI. ON PERFS 58.2 BPM AT 7151 PSI. STAGE TO 2 PPA 20/40 WHITE. 58.2 BPM AT 7063 PSI. ON PERFS 58.2 BPM AT 6775 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 58.3 BPM AT 6717 PSI. ON PERFS 58.2 BPM AT 6823 PSI. STAGE TO 3 PPA 20/40 WHITE. 58.2 BPM AT 6791 PSI. ON PERFS 58.2 BPM AT 6728 PSI. FLUSH 58.1 BPM AT 7572 PSI. WSI WITH 3000 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3064 FG .88 MAX RATE 58.3 BPM MAX PRES 7443 PSI AVE RATE 58.3 BPM AVE PRES 6877 PSI PMP 140,300 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 30,448 GAL 20# HYBOR G (16) 83,682 GAL (TOTAL FLUID 118,130 GAL) BWTR 2813 BBLs</p>

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	2.00	13:00	PFRT	Perforating	PERF STG #5- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2600 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,494' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 10,207'-10,469' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2400 PSI.
13:00	1.50	14:30	FRAC	Frac. Job	FRAC STG #5- CR-3 PERFS 10,207'-10,469' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2081 PSI AT 13:03 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4441 PSI AT 10.4 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3719 PSI. FLUSH W/ 6261 GAL. 40.0 BPM AT 7317 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 45.8 BPM AT 5535 PSI. ISIP 2758. FG .70. PERFS OPEN 25/60. CONT XL PAD. 59.5 BPM AT 6740 PSI. STAGE TO 1 PPA 20/40 WHITE. 60.1 BPM AT 6740 PSI. ON PERFS 60.1 BPM AT 6604 PSI. STAGE TO 2 PPA 20/40 WHITE. 60.1 BPM AT 6489 PSI. ON PERFS 60.2 BPM AT 6369 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 60.1 BPM AT 6293 PSI. ON PERFS 60.2 BPM AT 6319 PSI. STAGE TO 3 PPA 20/40 WHITE. 60.1 BPM AT 6251 PSI. ON PERFS 60.1 BPM AT 6250 PSI. FLUSH 60.1 BPM AT 6350 PSI. WSI WITH 3000 PSI. TURN OVER TO WIRELINE. ISDP 3059 FG .81 MAX RATE 60.2 BPM MAX PRES 6875 PSI AVE RATE 60.1 BPM AVE PRES 6359 PSI PMP 140,200 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 23,746 GAL 20# HYBOR G (16) 82,747 GAL (TOTAL FLUID 110,493 GAL) BWTR 2631 BBLs
14:30	1.84	16:20	PFRT	Perforating	PERF STG #6- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 6 INTO LUB AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,177' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 9885'-10,147' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2350 PSI.
16:20	0.42	16:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
16:45	1.25	18:00	FRAC	Frac. Job	Frac Stage 6. Fluid System: Hybor G 16 Open Well, 2,052 Psi. ICP. BrokeDown At 10.5 Bpm And 3,764 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.0 Bpm And 7,174 Psi., Get ISIP, 3,043 Psi.. 0.85 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 29.6 Bpm At 5,646 Psi.. On Perfs, 50.2 Bpm At 5,703 Psi., 18,895 Gals. Stage Into 1.0# 20/40 White Prop, 55.5 Bpm At 6,575 Psi.. On Perfs, 55.3 Bpm At 6,363 Psi., 10,059 Gals. Stage Into 2.0# 20/40 White Prop, 55.2 Bpm At 6,581 Psi.. On Perfs, 55.3 Bpm At 6,160 Psi., 15,042 Gals. Stage Into 2.5# 20/40 White Prop, 55.4 Bpm At 6,055 Psi.. On Perfs, 55.4 Bpm At 5,999 Psi., 26,565 Gals. Stage Into 3.0# 20/40 White Prop, 55.3 Bpm At 6,114 Psi.. On Perfs, 55.3 Bpm At 6,234 Psi., 12,496 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,270 Psi.. 0.88 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,200# Total Clean - 116,337 Gals.. 2,770 Bbls.. BWTR - 2,960 Bbls. Max. Rate - 55.4 Bpm Avg. Rate - 55.3 Bpm Max. Psi. - 6,654 Psi. Avg. Psi. - 6,176 Psi.
18:00	0.17	18:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:10	1.66	19:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 9,855'. 2,500 Psi. Perforate Stage 7 CR-3 Zone, 9,563 - 9,825'. 60 Holes. 2,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
19:50	0.25	20:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
20:05	1.17	21:15	FRAC	Frac. Job	Frac Stage 7. Fluid System: Hybor G 16 Open Well, 2,085 Psi. ICP. BrokeDown At 10.1 Bpm And 3,568 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.2 Bpm And 6,051 Psi., Get ISDP, 3,176 Psi.. 0.87 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 29.8 Bpm At 4,961 Psi.. On Perfs, 50.3 Bpm At 6,016 Psi., 18,909 Gals. Stage Into 1.0# 20/40 White Prop, 59.4 Bpm At 7,035 Psi.. On Perfs, 59.5 Bpm At 6,844 Psi., 10,010 Gals. Stage Into 2.0# 20/40 White Prop, 59.6 Bpm At 6,590 Psi.. On Perfs, 59.6 Bpm At 6,278 Psi., 15,029 Gals. Stage Into 2.5# 20/40 White Prop, 59.5 Bpm At 6,289 Psi.. On Perfs, 59.6 Bpm At 6,285 Psi., 26,852 Gals. Stage Into 3.0# 20/40 White Prop, 59.5 Bpm At 6,454 Psi.. On Perfs, 59.5 Bpm At 6,319 Psi., 12,454 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,244 Psi.. 0.88 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,100# Total Clean - 114,905 Gals.. 2,736 Bbls.. BWTR - 2,916 Bbls. Max. Rate - 59.6 Bpm Avg. Rate - 59.5 Bpm Max. Psi. - 7,105 Psi. Avg. Psi. - 6,438 Psi.
21:15	0.17	21:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
21:25	1.66	23:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 9,533'. 2,500 Psi. Perforate Stage 8 CR-3 Zone, 9,241 - 9,503'. 60 Holes. 2,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
23:05	0.25	23:20	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
23:20	1.17	00:30	FRAC	Frac. Job	Frac Stage 8. Fluid System: Hybor G 16 Open Well, 2,137 Psi. ICP. BrokeDown At 10.0 Bpm And 4,421 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 38.9 Bpm And 6,844 Psi., Get ISDP, 3,237 Psi.. 0.88 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 31.6 Bpm At 5,576 Psi.. On Perfs, 54.7 Bpm At 6,333 Psi., 18,911 Gals. Stage Into 1.0# 20/40 White Prop, 60.4 Bpm At 7,139 Psi.. On Perfs, 58.9 Bpm At 6,890 Psi., 10,256 Gals. Stage Into 2.0# 20/40 White Prop, 58.8 Bpm At 6,997 Psi.. On Perfs, 57.2 Bpm At 6,715 Psi., 15,012 Gals. Stage Into 2.5# 20/40 White Prop, 57.3 Bpm At 6,554 Psi.. On Perfs, 57.3 Bpm At 6,449 Psi., 27,035 Gals. Stage Into 3.0# 20/40 White Prop, 57.3 Bpm At 6,422 Psi.. On Perfs, 57.3 Bpm At 6,442 Psi., 12,501 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,481 Psi.. 0.91 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,200# Total Clean - 112,740 Gals.. 2,684 Bbls.. BWTR - 2,860 Bbls. Max. Rate - 60.4 Bpm Avg. Rate - 57.6 Bpm Max. Psi. - 7,320 Psi. Avg. Psi. - 6,567 Psi.
00:30	0.25	00:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.

Start Time	Dur (hr)	End Time	Code	Category	Com
00:45	3.33	04:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Attemp To Set CFP, Did See Any Indication That Plug Set. POOH At 50'/Min.
04:05	0.42	04:30	CTUW	W/L Operation	Plug Not On When To Surface, Set At 9,200', 2,500 Psi..Pick Up Dummy Plug And Perf. Gun. Nipple Up To Well, Equalize.
04:30	1.50	06:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Perforate Stage 9 CR-3 Zone, 8,919 - 9,181'. 60 Holes. 2,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	PFRT	Perforating	CREW CHANGE. HSM. CHECK FLUID VOLUMES. CONT POOH W/ GUNS FROM STG #9. VERIFY ALL GUNS SHOT. DROP BALL. TURN OVER TO HES. AFTER BALL WAS DROPPED FOUND OUT THAT BTM PART OF DUMMY PLUG WAS BROKEN. PIECES OF DUMMY PLUG IN WELL. CONT WITH FRAC.
06:15	1.50	07:45	FRAC	Frac. Job	FRAC STG #9- CR-3 PERFS 8919'-9181' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2151 PSI AT 06:15 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4350 PSI AT 15.3 BPM. PMP 4000 GAL 15% HCL ACID. 10.6 BPM AT 3573 PSI. FLUSH W/ 5940 GAL. 45.1 BPM AT 6815 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 50.7 BPM AT 6286 PSI. ISIP 2803. FG .82. PERFS OPEN 20/60. CONT XL PAD. 57.9 BPM AT 6755 PSI. STAGE TO 1 PPA 20/40 WHITE. 61.4 BPM AT 6845 PSI. ON PERFS 61.9 BPM AT 6554 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.9 BPM AT 6399 PSI. ON PERFS 62.1 BPM AT 6254 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 62.1 BPM AT 6258 PSI. ON PERFS 62.1 BPM AT 6320 PSI. STAGE TO 3 PPA 20/40 WHITE. 61.9 BPM AT 6418 PSI. ON PERFS 61.9 BPM AT 6438 PSI. LOST PUMP. FLUSH W/ 5 PUMPS. FLUSH 51.6 BPM AT 5719 PSI. WSI WITH 3100 PSI. TURN OVER TO WIRELINE. ISDP 3047 FG .85 MAX RATE 62.2 BPM MAX PRES 6848 PSI AVE RATE 61.4 BPM AVE PRES 6392 PSI PMP 140,500 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 24,825 GAL 20# HYBOR G (16) 83,180 GAL (TOTAL FLUID 112,005 GAL) BWTR 2667 BBLS
07:45	1.75	09:30	PFRT	Perforating	PERF STG #10- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 10 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8889' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 8537'-8799' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.

Start Time	Dur (hr)	End Time	Code	Category	Com
09:30	1.50	11:00	FRAC	Frac. Job	<p>FRAC STG #10- CR-3 PERFS 8537'-8799' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2158 PSI AT 12:37 LET BALL FALL FOR 10 MIN. PUMP TO SEAT BALL. BREAK DOWN 3579 PSI AT 15.0 BPM. PMP 4000 GAL 15% HCL ACID. 10.3 BPM AT 3282 PSI. FLUSH W/ 5263 GAL. 39.9 BPM AT 5917 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 51.4 BPM AT 5742 PSI. ISIP 3019. FG .85. PERFS OPEN 24/60. CONT XL PAD. 60.7 BPM AT 6655 PSI. STAGE TO 1 PPA 20/40 WHITE. 61.0 BPM AT 6648 PSI. ON PERFS 61.1 BPM AT 6467 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.2 BPM AT 6288 PSI. ON PERFS 61.3 BPM AT 6085 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 61.3 BPM AT 6035 PSI. ON PERFS 61.3 BPM AT 6042 PSI. STAGE TO 3 PPA 20/40 WHITE. 61.0 BPM AT 6228 PSI. ON PERFS 61.0 BPM AT 6381 PSI. CUT SAND ON 3 PPA DUE TO SHARP INCREASE IN NET PRESSURES. FLUSH 60.0 BPM AT 7250 PSI. SLOW RATE TO FINISH FLUSH. WSI WITH 3500 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3623 FG .93 MAX RATE 61.4 BPM MAX PRES 6659 PSI AVE RATE 61.2 BPM AVE PRES 6169 PSI PMP 129,200 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 20,042 GAL 20# HYBOR G (16) 80,838 GAL. (TOTAL FLUID 104,880 GAL) BWTR 2497 BBLS</p>
11:00	1.50	12:30	PFRT	Perforating	<p>PERF STG #11- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 11 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8507' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 8215'-8477' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.</p>
12:30	1.75	14:15	FRAC	Frac. Job	<p>FRAC STG #11- CR-3 PERFS 8215'-8477' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2120 PSI AT 09:34 LET BALL FALL FOR 10 MIN. PUMP TO SEAT BALL. BREAK DOWN 3855 PSI AT 15.2 BPM. PMP 4000 GAL 15% HCL ACID. 10.5 BPM AT 3613 PSI. FLUSH W/ 5420 GAL. 42.5 BPM AT 6970 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 51.6 BPM AT 5562 PSI. ISIP 3136. FG .86. PERFS OPEN 27/60. CONT XL PAD. 60.4 BPM AT 6385 PSI. STAGE TO 1 PPA 20/40 WHITE. 60.5 BPM AT 6421 PSI. ON PERFS 60.6 BPM AT 6226 PSI. STAGE TO 2 PPA 20/40 WHITE. 60.7 BPM AT 6084 PSI. ON PERFS 62.8 BPM AT 6104 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 62.8 BPM AT 6142 PSI. ON PERFS 62.8 BPM AT 6157 PSI. NET PRESSURE CLIMBING SLOW, EXTEND 2.5 PPA FOR SAND VOLUME. 62.5 BPM AT 6321 PSI, PUMP RATE BOUNCED AT FLUSH. CAUSED SHARP INCREASE IN NET. FLUSH 62.3 BPM AT 6795 PSI. SLOW RATE TO FINISH FLUSH 46.2 BPM AT 6140 PSI. WSI WITH 3300 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3740 FG .94 MAX RATE 62.8 BPM MAX PRES 6517 PSI AVE RATE 62.1 BPM AVE PRES 6236 PSI PMP 141,100 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 18,741 GAL 20# HYBOR G (16) 85,430 GAL (TOTAL FLUID 108,171 GAL) BWTR 2576 BBLS</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:15	1.25	15:30	PFRT	Perforating	PERF STG #12- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 12 INTO LUBE AND EQUALIZE 2900 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8185' WITH 2350 PSI. PULL UP AND PERF CR-3 FORM 7958'-8155' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.
15:30	0.42	15:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
15:55	1.00	16:55	FRAC	Frac. Job	Frac Stage 12. Fluid System: Hybor G 16 Open Well, 2,161 Psi. ICP. BrokeDown At 9.7 Bpm And 4,227 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.9 Bpm And 5,963 Psi., Get ISDP, 3,354 Psi.. 0.89 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 28.7 Bpm At 5,115 Psi.. On Perfs, 53.0 Bpm At 6,156 Psi., 15,367 Gals. Stage Into 1.0# 20/40 White Prop, 57.2 Bpm At 6,710 Psi.. On Perfs, 59.8 Bpm At 6,689 Psi., 10,051 Gals. Stage Into 2.0# 20/40 White Prop, 60.2 Bpm At 6,497 Psi.. On Perfs, 60.3 Bpm At 6,206 Psi., 15,036 Gals. Stage Into 2.5# 20/40 White Prop, 60.4 Bpm At 6,063 Psi.. On Perfs, 60.4 Bpm At 5,980 Psi., 16,159 Gals. Stage Into 3.0# 20/40 White Prop, 60.4 Bpm At 5,858 Psi.. On Perfs, 60.4 Bpm At 5,845 Psi., 11,471 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,354 Psi.. 0.92 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 110,400# Total Clean - 92,084 Gals.. 2,192 Bbls.. BWTR - 2,348 Bbls. Max. Rate - 60.5 Bpm Avg. Rate - 60.1 Bpm Max. Psi. - 6,707 Psi. Avg. Psi. - 6,138 Psi.
16:55	13.08	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. MORU On 5-6D-45 BTR

5H-1-46 TW BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

5H-1-46 TW BTR 3/7/2013 06:00 - 3/8/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	FBCK	Flowback Well	WELL FLOWING TO SALES WAITING ON COIL TBG.
14:30	1.50	16:00	SRIG	Rig Up/Down	MI CTS. SPOT AND RU COIL EQUIP.
16:00	1.00	17:00	GOP	General Operations	MU STI TOOLS OF CONNECTOR, CHECKS, BI-DI JAR, HYD DISCONNECT, CIRC SUB, AGITATOR, MOTOR, 3-7/8" MILL. FILL COIL, CIRC TEST TOOLS. MU LUBE. PRES TEST
17:00	2.50	19:30	RUTB	Run Tubing	RIH W/ MILL ON COIL AS CIRC .5 BPM. START CIRC 2.5 BPM AT 6800'.
19:30	7.50	03:00	DOPG	Drill Out Plugs	D/O PLUGS AT 8185' (6 MIN), 8507' (11 MIN), AND 8889' (13 MIN), RIH AND TAG #4 AT 9200'. MAKE WIPER TRIP TO 6900'. RUN BACK DOWN. D/O PLUGS AT 9200' (35 MIN), 9533' (50 MIN), AND 9855' (91 MIN TO GET THRU #6). RIH AND TAG #7 AT 10,177' . MILL ON PLUG #7. STILL SLOW MILLING. PMP SWEEP.
03:00	2.00	05:00	PULT	Pull Tubing	POOH TO X-OUT MILL AND MOTOR.
05:00		05:00	RUTB	Run Tubing	MU NEW 3-7/8" COWBOY MILL AND MOTOR. PRES TEST LUBE TO 5000 PSI. RIH W/ 2" COIL TBG.

5H-1-46 TW BTR 3/8/2013 06:00 - 3/9/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.34	07:20	TRIP	Tripping	Running In Hole With Mill #2, Bi-Di Jar, Hydraulic Disconnect, Dual Circ. Sub, Agitator And Motor. Static Well Pressure 750#. At 200' Open Well To FlowBack, .5 Bpm Returns, 500#'s. Start Pumping At 2 Bpm At 6000', 600#'s Flowing Pressure, 3 Bpm Returns.
07:20	0.50	07:50	CLN	Clean Out Hole	Tag CFP #7 At 10,177', 3.0 Bpm Returns, 550#. DrillOut In 31 Min., 3.0 Bpm Returns, 400#.
07:50	0.17	08:00	TRIP	Tripping	TIH To Next Plug.
08:00	0.58	08:35	CLN	Clean Out Hole	Tag CFP #8 At 10,494', 3.0 Bpm Returns, 400#. DrillOut In 34 Min., 3.0 Bpm Returns, 300#.
08:35	0.67	09:15	TRIP	Tripping	TIH To Next Plug. 150' Of Sand.
09:15	0.75	10:00	CLN	Clean Out Hole	Tag CFP #9 At 10,821', 3.0 Bpm Returns, 300#. DrillOut In 46 Min., 3.0 Bpm Returns, 300#.
10:00	2.17	12:10	TRIP	Tripping	TIH To Next Plug. 300' Of Sand.
12:10	1.00	13:10	CLN	Clean Out Hole	Tag CFP #10 At 11,143', 3.0 Bpm Returns, 500#. DrillOut In 60 Min., 3.0 Bpm Returns, 500#.
13:10	1.50	14:40	TRIP	Tripping	TIH To Next Plug. 280' Of Sand.
14:40	1.33	16:00	CTU	Clean Out	Tag CFP #11 At 11,465', 3.0 Bpm Returns, 600#. DrillOut In 75 Min., 3.0 Bpm Returns, 550#.
16:00	0.83	16:50	TRIP	Tripping	TIH To PBTD. 100' Of Sand.
16:50	0.50	17:20	CLN	Clean Out Hole	Pump 2 20 Bbl. Sweeps. Circulate 30 Minutes.
17:20	2.67	20:00	TRIP	Tripping	POOH With Coil.
20:00	0.50	20:30	GOP	General Operations	ND EQUIP. MOVE OVER. TURN WELL OVER TO FBC AND SALES.
20:30	10.00	06:30	FBCK	Flowback Well	WELL ON PROD TO SALES.

5H-1-46 TW BTR 3/27/2013 06:00 - 3/28/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	WKLL	Kill Well	PMP 140 BBLS HOT WTR. PRES TO 1200 PSI.
08:00	0.50	08:30	FBCK	Flowback Well	FLOW BACK TO PROD TANKS.
08:30	1.00	09:30	GOP	General Operations	ND FRAC VALVES. NU BOP. RU FLOOR.
09:30	2.50	12:00	WKLL	Kill Well	STING OUT OF LINER. PMP 300 BBLS (150 HOT, 150 COLD) AS CIRC TO PROD TANKS.X-OVER FOR 4.5"
12:00	1.00	13:00	GOP	General Operations	RU CSH CREW. WAITED ON LD MACHING.
13:00	0.50	13:30	GOP	General Operations	SPOT CATWALK AND RACKS.
13:30	2.00	15:30	PULT	Pull Tubing	POOH AS LD 4-1/2" CSG
15:30	0.75	16:15	GOP	General Operations	FLUSH CSG W/ 70 BBLS HOT WTR.
16:15	2.75	19:00	PULT	Pull Tubing	CONT POOH AS LD 4-1/2" CSG. 178-JTS TOTAL.
19:00	0.50	19:30	GOP	General Operations	RD CSG CREW. SWIFN W/ CSG TO TREATER.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 TW BTR 3/28/2013 06:00 - 3/29/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
-------------------------	----------------	--------	--------------------------------	--------------------------	--------------------------------	---

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	GOP	General Operations	BWD, 50 PSI ON CSG. X-O FOR 2-7/8" TBG.
08:00	4.50	12:30	RUTB	Run Tubing	MU PROD BHA AND PU AS RIH W/ PROD TBG. TBG DETAIL HANGER 209-JTS 2-7/8" TBG 7" 8RD SET TAC. 2 JTS 2-7/8" TBG PSN 4' TBG SUB DESANDER 4 JTS 2-7/8" TBG 2-7/8" X 3" XO 3" X 4" XO 4" BP.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	1.00	13:30	BOPR	Remove BOP's	SET TAC. RD FLOOR. ND BOP. LAND HANGER IN 20K TENSION.
13:30	1.00	14:30	GOP	General Operations	FLUSH TBG W/60 BBLS HOT WTR.
14:30	1.50	16:00	GOP	General Operations	X-O FOR RODS. RACK OUT EQUIP. CLEAN LOCATION. SDFN W/ CSG OPEN TO TREATER.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 TW BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	2.00	09:00	GOP	General Operations	CHECK PRES. TBG 20 PSI. BWD. PREP RODS AND RU FLOW LINE.
09:00	4.00	13:00	RURP	Run Rods & Pump	PU AND PRIME PUMP. RIH AS PU RODS. ROD DETAIL 1-1/2" X 26' POLISH ROD 2', 6', 8', X 7/8" PONY RODS 92) 7/8" W/ 4G 137) 3/4" W/ 4G 40) 1" W/ 4G SHEAR CPLG 25-175-RHBC-20-5-21-24 PMP
13:00	2.50	15:30	GOP	General Operations	SPACE OUT RODS. HANG HORSE HEAD. ROLL UNET AND CHECK PUMP ACTION. GOOD TEST. NO TAG. RD RIG. RACK OUT TOOLS. TURN OVER TO PRODUCTION. (WEIGHT HEAVY)
15:30	0.50	16:00	RMOV	Rig Move	ROAD RIG TO 13H-33-46. SDFN
16:00	14.00	06:00	GOP	General Operations	WELL TURNED OVER TO PRODUCTION DEPT. CREW TRAVEL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**CONFIDENTIAL**FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**5. Lease Serial No.
20G00056081a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER
E-Mail: vlangmacher@billbarrettcorp.com8. Lease Name and Well No.
5H-1-46 BTR WA3. Address 1099 18TH STREET SUITE 2300
DENVER, CO 802023a. Phone No. (include area code)
Ph: 303-312-81729. API Well No.
43-013-51216

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface Sec 6 T4S R5W Mer UBM
SWNW 2650FNL 284FWL
At top prod interval reported below Sec 1 T4S R6W Mer UBM
SENE 1931FNL 661FEL
At total depth Sec 1 T4S R6W Mer UBM
SWNW 2000FNL 678FWL10. Field and Pool, or Exploratory
CEDAR RIM11. Sec., T., R., M., or Block and Survey
or Area Sec 6 T4S R5W Mer UBM12. County or Parish
DUCHESNE13. State
UT14. Date Spudded
09/14/201215. Date T.D. Reached
12/03/201216. Date Completed
☐ D & A ☒ Ready to Prod.
03/05/201317. Elevations (DF, KB, RT, GL)*
5941 GL18. Total Depth: MD 11918
TVD 740319. Plug Back T.D.: MD 11835
TVD 739820. Depth Bridge Plug Set: MD
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CBL, TRIPLE COMBO22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80					
12.250	9.625 J-55	36.0	0	2508	2508	535	225	0	
8.750	7.000 P-110	26.0	0	7926	7926	890	312	3946	
6.125	4.500 P-110	11.6	6996	11921	11921	265	126	6996	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6866							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7958	11757	7958 TO 11757	0.440	720	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7958 TO 11757	SEE ATTACHED STAGES 1-12

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/05/2013	03/10/2013	24	→	52.0	49.0	109.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Fwlg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
22/64	SI	150.0	→	52	49	109	942	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Fwlg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #203369 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

DIV OF OIL, GAS & MINING

RECEIVED

APR 04 2013

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	2674
				MAHOGANY	3521
				TGR3	4753
				DOUGLAS CREEK	5645
				BLACK SHALE	6485
				CASTLE PEAK	6767
				UTELAND BUTTE	7094
				WASATCH	7335

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. First gas sales were on 3/5/13. Conductor cemented with grout. Attached is treatment data and end of well report.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #203369 Verified by the BLM Well Information System.
For BLL BARRETT CORPORATION, sent to the Vernal

Name (please print) VENESSA LANGMACHER *Venessa Langmacher* title SENIOR PERMIT ANALYST

Signature _____ (Electronic Submission)

Date 04/04/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

**Duchesne County, UT (NAD 1927)
Sec. 6-T4S-R5W (BTR 6-45 PAD)
Wasatch 5H-1-46 BTR - A2**

Design: MWD Final Surveys

07 January, 2013

Local Coordinate Origin: Centered on Well Wasatch 5H-1-46 BTR - Slot A2
Viewing Datum: KB=23' @ 5955.00ft (Nabors M-22)
TVDs to System: N
North Reference: True
Unit System: API - US Survey Feet - Custom

HALLIBURTON

SPERRY-SUN DRILLING SERVICES

CERTIFIED SURVEY WORK SHEET

OPERATOR:	Bill Barrett Corp.
WELL:	5H-1-46 TW BTR
FIELD:	BTR
RIG:	Nabors M22
LEGALS:	Sec. 6-T4S-R5W
COUNTY:	Duchesne
STATE:	Utah
CAL. METHOD:	Min. Curv.
MAG. DECL. APPLIED:	11.37°
VERTICAL SEC. DIR. :	278.000

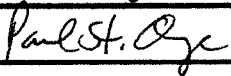
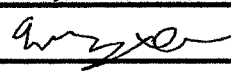

SSDS Job Number :	9878351
Start Date of Job :	11/1/2012
End Date of Job :	11/30/2012
Lead Directional Driller:	Paul St. Onge
	Wesley Cline
Other SSDS DD's :	Glen Kumm
SSDS MWD Engineers :	Freddy Hale
	J.T. Smith

Geo Pilot Engineer :


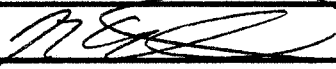
	Main Hole =====>	1st Side Track =====>	2nd Side Track =====>	3rd Side Track =====>	4th Side Track =====>
Surface Casing	82'	Tie-on	Tie On	Tie On	Tie On
First Wireline Survey		SS	MWD		
Last Wireline Survey		SS			
KOP Depth/Sidetrack MD		KOP	KOP-ST1	KOP-ST2	KOP-ST3
MWD Tie-on					KOP-ST4
First MWD Survey Depth	146'	MWD	MWD	MWD	MWD
Last MWD Survey Depth	11846'	MWD	MWD	MWD	MWD
Bit Extrapolation @ TD	11918'	T.D.	T.D.	T.D.	T.D.

The following Sperry Drilling Services personnel, certify the above survey information to be accurate to the best of our knowledge:

Print Name : Paul St. Onge Print Name : Wesley Cline Print Name : Glen Kumm

Sign Name :  Sign Name :  Sign Name : 

Print Name : Freddy Hale Print Name : J.T. Smith Print Name :

Sign Name :  Sign Name :  Sign Name :

Examples of Survey Types:

TieOn	Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
MWD	Sperry-Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
ESS	Sperry-Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
Gyro	Gyro Survey's ; Provided by third party vendor, or by Sperry-Sun Drilling Services (SSDS)
SS	Single Shot (SS) Survey's ; Provided by Sperry-Sun Drilling Services (SSDS) or third party vendor.

HALLIBURTON**Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
146.00	0.37	272.100	146.00	0.02	-0.47	0.47	0.25
First Sperry MWD Survey @ 146.00' MD							
208.00	0.67	267.410	208.00	0.01	-1.03	1.02	0.49
270.00	0.47	262.920	269.99	-0.04	-1.65	1.63	0.33
332.00	0.15	75.270	331.99	-0.05	-1.82	1.80	1.00
394.00	0.44	77.640	393.99	0.02	-1.51	1.50	0.47
455.00	0.37	83.440	454.99	0.09	-1.09	1.09	0.13
516.00	0.31	100.220	515.99	0.09	-0.73	0.73	0.19
578.00	0.20	152.860	577.99	-0.04	-0.51	0.50	0.40
639.00	0.39	199.170	638.99	-0.33	-0.53	0.48	0.48
701.00	0.64	205.540	700.99	-0.84	-0.75	0.63	0.41
762.00	0.77	214.980	761.98	-1.48	-1.13	0.92	0.29
824.00	0.67	254.300	823.98	-1.92	-1.72	1.44	0.80
888.00	1.04	265.910	887.97	-2.07	-2.66	2.35	0.64
951.00	1.19	264.150	950.96	-2.17	-3.88	3.54	0.24
1,014.00	1.31	273.900	1,013.94	-2.19	-5.25	4.90	0.39
1,077.00	1.38	275.700	1,076.92	-2.07	-6.72	6.37	0.13
1,141.00	1.58	304.370	1,140.90	-1.49	-8.22	7.93	1.18
1,204.00	1.78	308.550	1,203.88	-0.39	-9.70	9.55	0.37
1,267.00	1.91	303.670	1,266.84	0.80	-11.34	11.34	0.32
1,331.00	2.03	308.610	1,330.81	2.10	-13.11	13.28	0.32
1,394.00	2.12	302.280	1,393.77	3.42	-14.97	15.30	0.39
1,457.00	2.44	307.510	1,456.72	4.86	-17.02	17.53	0.61
1,520.00	2.53	306.750	1,519.66	6.50	-19.20	19.92	0.15
1,584.00	2.69	319.100	1,583.59	8.48	-21.31	22.29	0.91
1,647.00	2.75	331.740	1,646.52	10.93	-23.00	24.30	0.95
1,710.00	3.57	333.090	1,709.42	14.01	-24.60	26.31	1.31
1,773.00	4.54	336.490	1,772.27	18.05	-26.48	28.74	1.59
1,837.00	4.97	338.200	1,836.05	22.95	-28.52	31.44	0.71
1,900.00	4.98	340.440	1,898.81	28.06	-30.45	34.06	0.31
1,963.00	5.89	341.730	1,961.52	33.70	-32.38	36.76	1.46
2,027.00	6.46	340.500	2,025.15	40.21	-34.61	39.87	0.91
2,090.00	7.21	338.400	2,087.70	47.23	-37.25	43.46	1.25
2,152.00	8.08	338.100	2,149.15	54.89	-40.31	47.56	1.40
2,216.00	8.75	337.890	2,212.46	63.57	-43.82	52.24	1.05
2,279.00	9.34	338.830	2,274.68	72.78	-47.47	57.14	0.97
2,342.00	9.99	342.170	2,336.79	82.75	-50.99	62.01	1.36
2,405.00	10.61	344.000	2,398.77	93.53	-54.26	66.75	1.11
2,441.00	11.17	342.960	2,434.12	100.05	-56.19	69.58	1.65
2,536.00	10.63	338.550	2,527.41	117.00	-62.10	77.78	1.05
2,599.00	10.19	334.570	2,589.37	127.44	-66.61	83.71	1.34
2,662.00	11.65	334.320	2,651.23	138.21	-71.76	90.31	2.32
2,725.00	12.21	334.000	2,712.87	149.93	-77.44	97.56	0.90
2,789.00	11.41	331.040	2,775.51	161.55	-83.47	105.15	1.57
2,852.00	10.97	328.680	2,837.32	172.12	-89.61	112.70	1.01
2,915.00	11.20	327.190	2,899.14	182.39	-96.04	120.49	0.58
2,978.00	11.28	329.740	2,960.93	192.85	-102.46	128.31	0.80
3,042.00	10.93	332.740	3,023.74	203.65	-108.39	135.69	1.06
3,105.00	10.35	333.050	3,085.65	214.01	-113.69	142.38	0.93

Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
3,168.00	10.59	335.040	3,147.60	224.30	-118.70	148.77	0.69
3,232.00	10.93	337.420	3,210.48	235.23	-123.51	155.06	0.87
3,295.00	10.71	339.540	3,272.36	246.23	-127.85	160.88	0.72
3,358.00	11.18	341.320	3,334.21	257.50	-131.85	166.42	0.92
3,422.00	12.14	341.980	3,396.89	269.78	-135.92	172.16	1.51
3,485.00	12.13	338.210	3,458.48	282.23	-140.43	178.35	1.26
3,548.00	10.52	330.490	3,520.26	293.38	-145.72	185.14	3.50
3,611.00	10.07	326.060	3,582.25	302.95	-151.63	192.33	1.44
3,675.00	11.46	330.070	3,645.12	313.11	-157.92	199.98	2.47
3,738.00	12.75	334.600	3,706.72	324.81	-164.03	207.65	2.54
3,801.00	12.67	331.160	3,768.18	337.14	-170.34	215.62	1.21
3,864.00	12.46	327.480	3,829.67	348.93	-177.33	224.18	1.31
3,928.00	13.53	327.500	3,892.03	361.06	-185.06	233.53	1.67
3,991.00	13.06	326.340	3,953.34	373.20	-192.97	243.05	0.86
4,054.00	12.43	324.930	4,014.79	384.68	-200.81	252.41	1.12
4,117.00	12.11	323.780	4,076.35	395.56	-208.61	261.65	0.64
4,181.00	11.72	321.890	4,138.97	406.09	-216.59	271.02	0.86
4,243.00	11.11	320.280	4,199.74	415.64	-224.29	279.97	1.11
4,306.00	10.47	316.950	4,261.63	424.49	-232.08	288.92	1.42
4,369.00	10.22	316.920	4,323.60	432.76	-239.80	297.72	0.40
4,432.00	10.38	319.640	4,385.59	441.16	-247.30	306.31	0.81
4,496.00	10.35	320.050	4,448.55	449.96	-254.72	314.89	0.12
4,559.00	9.95	317.990	4,510.56	458.35	-262.00	323.26	0.86
4,622.00	9.91	324.180	4,572.62	466.79	-268.81	331.18	1.69
4,685.00	9.76	329.570	4,634.69	475.79	-274.69	338.26	1.48
4,749.00	9.41	331.610	4,697.80	485.07	-279.93	344.73	0.76
4,812.00	8.48	328.940	4,760.03	493.58	-284.77	350.71	1.62
4,875.00	8.19	331.250	4,822.37	501.49	-289.33	356.33	0.70
4,939.00	8.68	335.480	4,885.68	509.88	-293.52	361.65	1.23
5,002.00	8.72	337.460	4,947.95	518.62	-297.33	366.63	0.48
5,065.00	8.44	335.730	5,010.25	527.24	-301.06	371.53	0.60
5,129.00	7.41	333.940	5,073.63	535.23	-304.80	376.35	1.65
5,192.00	6.38	335.750	5,136.18	542.07	-308.03	380.49	1.67
5,255.00	5.49	331.650	5,198.84	547.92	-310.89	384.15	1.56
5,318.00	5.33	334.160	5,261.56	553.20	-313.60	387.56	0.45
5,382.00	4.55	332.990	5,325.32	558.14	-316.05	390.67	1.23
5,445.00	4.59	343.890	5,388.12	562.79	-317.88	393.14	1.38
5,508.00	5.12	339.850	5,450.90	567.85	-319.55	395.49	1.00
5,571.00	4.58	337.050	5,513.67	572.80	-321.50	398.11	0.94
5,635.00	4.88	338.910	5,577.45	577.70	-323.48	400.75	0.53
5,698.00	6.02	336.120	5,640.17	583.22	-325.78	403.80	1.86
5,761.00	6.89	333.410	5,702.77	589.62	-328.81	407.69	1.46
5,824.00	6.39	330.180	5,765.34	596.04	-332.24	411.99	0.99
5,888.00	5.70	324.200	5,828.99	601.71	-335.87	416.37	1.46
5,951.00	5.68	323.830	5,891.68	606.76	-339.54	420.71	0.07
6,011.00	5.84	326.520	5,951.38	611.70	-342.98	424.80	0.52
6,074.00	5.49	333.430	6,014.07	617.07	-346.09	428.63	1.22
6,137.00	5.60	333.360	6,076.77	622.52	-348.82	432.09	0.17
6,200.00	5.09	328.360	6,139.50	627.64	-351.67	435.62	1.10
6,264.00	4.62	318.200	6,203.27	631.98	-354.87	439.40	1.53
6,327.00	4.84	316.290	6,266.06	635.79	-358.40	443.42	0.43

Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6,390.00	4.92	313.120	6,328.83	639.56	-362.21	447.72	0.45
6,452.00	4.70	311.050	6,390.61	643.05	-366.06	452.02	0.45
6,516.00	5.04	312.430	6,454.38	646.67	-370.12	456.54	0.56
6,579.00	5.58	322.790	6,517.11	650.97	-374.01	461.00	1.74
6,642.00	5.40	338.920	6,579.82	656.18	-376.93	464.61	2.46
6,705.00	4.12	337.540	6,642.61	661.04	-378.86	467.20	2.04
6,768.00	3.28	322.600	6,705.48	664.56	-380.82	469.63	2.02
6,831.00	3.28	309.880	6,768.37	667.15	-383.30	472.45	1.15
6,895.00	3.44	291.060	6,832.26	669.01	-386.50	475.87	1.73
6,958.00	3.83	272.250	6,895.14	669.77	-390.36	479.81	1.98
7,020.00	4.65	270.180	6,956.97	669.86	-394.94	484.36	1.35
7,037.00	4.79	268.770	6,973.91	669.85	-396.34	485.74	1.07
7,068.00	4.90	263.970	7,004.80	669.68	-398.95	488.30	1.35
7,100.00	4.75	272.770	7,036.69	669.60	-401.64	490.95	2.36
7,132.00	6.69	277.680	7,068.53	669.92	-404.81	494.13	6.25
7,163.00	8.86	278.450	7,099.24	670.51	-408.96	498.32	7.01
7,193.00	12.27	279.480	7,128.73	671.37	-414.39	503.82	11.38
7,225.00	15.24	280.330	7,159.81	672.69	-421.88	511.43	9.30
7,255.00	18.74	280.940	7,188.49	674.31	-430.50	520.18	11.68
7,287.00	20.53	279.040	7,218.63	676.17	-441.09	530.93	5.94
7,319.00	23.18	276.470	7,248.33	677.76	-452.89	542.83	8.80
7,350.00	27.04	276.340	7,276.39	679.22	-465.96	555.98	12.45
7,382.00	30.94	278.570	7,304.38	681.25	-481.33	571.48	12.64
7,413.00	34.05	278.640	7,330.52	683.75	-497.79	588.14	10.03
7,445.00	37.43	277.670	7,356.49	686.39	-516.29	606.82	10.71
7,477.00	39.37	277.800	7,381.57	689.07	-535.99	626.70	6.07
7,508.00	41.94	275.760	7,405.09	691.44	-556.04	646.89	9.33
7,540.00	45.07	273.590	7,428.30	693.22	-577.99	668.87	10.84
7,572.00	46.80	269.860	7,450.56	693.90	-600.97	691.72	9.97
7,621.00	49.53	269.090	7,483.23	693.56	-637.47	727.82	5.69
7,653.00	49.59	269.910	7,503.99	693.35	-661.82	751.91	1.96
7,684.00	52.17	272.300	7,523.55	693.83	-685.86	775.78	10.25
7,716.00	55.41	273.610	7,542.45	695.16	-711.64	801.49	10.65
7,747.00	58.80	273.880	7,559.29	696.86	-737.61	827.45	10.96
7,779.00	62.67	274.300	7,574.93	698.86	-765.45	855.29	12.15
7,811.00	65.67	274.980	7,588.87	701.19	-794.16	884.04	9.57
7,842.00	68.87	275.930	7,600.84	703.91	-822.62	912.60	10.70
7,874.00	72.16	276.340	7,611.52	707.13	-852.61	942.75	10.35
7,905.00	76.31	277.170	7,619.94	710.64	-882.23	972.57	13.63
7,937.00	80.59	278.010	7,626.34	714.79	-913.30	1,003.91	13.62
7,969.00	84.42	278.610	7,630.52	719.37	-944.68	1,035.63	12.11
7,974.00	85.06	278.590	7,630.98	720.11	-949.61	1,040.61	12.81
8,016.00	90.67	278.610	7,632.54	726.39	-991.09	1,082.56	13.36
8,047.00	93.25	278.130	7,631.48	730.90	-1,021.74	1,113.54	8.47
8,078.00	92.86	277.750	7,629.83	735.17	-1,052.40	1,144.50	1.76
8,109.00	92.66	277.050	7,628.33	739.16	-1,083.10	1,175.46	2.35
8,140.00	92.99	277.180	7,626.81	743.00	-1,113.83	1,206.42	1.14
8,172.00	92.45	276.440	7,625.29	746.79	-1,145.56	1,238.38	2.86
8,203.00	91.68	275.740	7,624.17	750.07	-1,176.37	1,269.34	3.36
8,235.00	92.49	275.650	7,623.01	753.25	-1,208.19	1,301.29	2.55

Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
8,267.00	93.02	274.870	7,621.47	756.18	-1,240.02	1,333.22	2.94
8,298.00	93.56	273.940	7,619.69	758.55	-1,270.88	1,364.10	3.46
8,330.00	94.61	273.870	7,617.41	760.73	-1,302.72	1,395.94	3.29
8,361.00	94.80	273.870	7,614.87	762.81	-1,333.54	1,426.76	0.61
8,393.00	94.91	272.900	7,612.16	764.70	-1,365.37	1,458.54	3.04
8,424.00	94.87	272.110	7,609.52	766.05	-1,396.23	1,489.28	2.54
8,456.00	94.81	269.910	7,606.82	766.61	-1,428.11	1,520.93	6.85
8,488.00	95.04	269.560	7,604.07	766.46	-1,459.99	1,552.48	1.31
8,519.00	95.31	269.470	7,601.27	766.20	-1,490.86	1,583.01	0.92
8,551.00	94.40	269.520	7,598.56	765.92	-1,522.75	1,614.55	2.85
8,582.00	93.05	269.580	7,596.55	765.68	-1,553.68	1,645.15	4.36
8,614.00	91.75	269.170	7,595.21	765.33	-1,585.65	1,676.76	4.26
8,645.00	90.27	268.020	7,594.66	764.57	-1,616.63	1,707.33	6.05
8,677.00	89.13	267.070	7,594.83	763.20	-1,648.60	1,738.80	4.64
8,709.00	89.16	266.970	7,595.31	761.53	-1,680.56	1,770.21	0.33
8,740.00	90.64	266.710	7,595.36	759.82	-1,711.51	1,800.62	4.85
8,772.00	91.11	267.120	7,594.87	758.10	-1,743.46	1,832.02	1.95
8,803.00	92.12	266.960	7,594.00	756.50	-1,774.40	1,862.44	3.30
8,835.00	92.22	267.280	7,592.79	754.90	-1,806.34	1,893.85	1.05
8,867.00	92.18	267.060	7,591.56	753.32	-1,838.28	1,925.25	0.70
8,898.00	92.22	268.610	7,590.37	752.15	-1,869.23	1,955.74	5.00
8,930.00	92.42	268.560	7,589.08	751.36	-1,901.20	1,987.28	0.64
8,961.00	92.31	268.830	7,587.80	750.65	-1,932.16	2,017.85	0.94
8,993.00	92.92	268.720	7,586.34	749.97	-1,964.12	2,049.40	1.94
9,025.00	93.46	269.400	7,584.56	749.44	-1,996.07	2,080.97	2.71
9,056.00	93.83	269.750	7,582.58	749.21	-2,027.00	2,111.57	1.64
9,088.00	94.10	270.240	7,580.37	749.21	-2,058.93	2,143.18	1.75
9,119.00	94.17	270.400	7,578.14	749.38	-2,089.85	2,173.82	0.56
9,151.00	93.96	270.540	7,575.87	749.65	-2,121.76	2,205.47	0.79
9,214.00	92.86	269.720	7,572.12	749.79	-2,184.65	2,267.76	2.18
9,277.00	94.10	271.890	7,568.30	750.67	-2,247.52	2,330.14	3.96
9,340.00	94.98	272.980	7,563.31	753.34	-2,310.27	2,392.65	2.22
9,403.00	94.23	272.000	7,558.25	756.07	-2,373.00	2,455.15	1.95
9,467.00	93.83	272.460	7,553.75	758.55	-2,436.80	2,518.67	0.95
9,530.00	92.62	269.240	7,550.21	759.48	-2,499.68	2,581.07	5.45
9,593.00	93.53	269.770	7,546.83	758.94	-2,562.59	2,643.29	1.67
9,656.00	93.52	269.820	7,542.96	758.71	-2,625.47	2,705.53	0.08
9,719.00	93.46	269.010	7,539.12	758.07	-2,688.35	2,767.70	1.29
9,782.00	93.39	268.590	7,535.36	756.75	-2,751.22	2,829.78	0.67
9,845.00	93.66	268.470	7,531.48	755.14	-2,814.08	2,891.81	0.47
9,909.00	94.06	268.420	7,527.17	753.41	-2,877.91	2,954.77	0.63
9,972.00	94.03	268.370	7,522.73	751.65	-2,940.73	3,016.74	0.09
10,035.00	94.37	267.220	7,518.12	749.23	-3,003.51	3,078.57	1.90
10,098.00	94.70	266.670	7,513.14	745.88	-3,066.23	3,140.21	1.02
10,161.00	94.90	266.930	7,507.86	742.38	-3,128.91	3,201.79	0.52
10,224.00	94.43	266.990	7,502.74	739.05	-3,191.61	3,263.42	0.75
10,287.00	94.57	267.200	7,497.80	735.87	-3,254.33	3,325.09	0.40
10,351.00	94.54	267.250	7,492.71	732.78	-3,318.06	3,387.76	0.09
10,414.00	93.22	267.200	7,488.45	729.74	-3,380.84	3,449.51	2.10
10,477.00	93.32	266.650	7,484.86	726.36	-3,443.64	3,511.23	0.89
10,540.00	93.39	266.670	7,481.17	722.70	-3,506.43	3,572.90	0.12

Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
10,603.00	92.02	267.570	7,478.20	719.54	-3,569.28	3,634.69	2.60
10,666.00	92.42	267.730	7,475.76	716.95	-3,632.18	3,696.62	0.68
10,729.00	92.18	267.780	7,473.23	714.49	-3,695.08	3,758.56	0.39
10,792.00	92.62	268.490	7,470.59	712.44	-3,757.99	3,820.58	1.33
10,855.00	92.31	267.780	7,467.88	710.39	-3,820.90	3,882.59	1.23
10,950.00	92.69	268.210	7,463.74	707.07	-3,915.75	3,976.05	0.60
11,045.00	92.65	267.990	7,459.31	703.92	-4,010.59	4,069.54	0.24
11,140.00	92.28	267.720	7,455.23	700.37	-4,105.44	4,162.96	0.48
11,234.00	92.42	266.500	7,451.37	695.64	-4,199.24	4,255.19	1.31
11,329.00	93.06	267.550	7,446.83	690.71	-4,294.00	4,348.34	1.29
11,424.00	93.09	266.920	7,441.73	686.14	-4,388.75	4,441.54	0.66
11,518.00	94.97	268.650	7,435.13	682.51	-4,482.44	4,533.81	2.71
11,613.00	93.76	266.900	7,427.90	678.83	-4,577.09	4,627.02	2.24
11,708.00	94.90	265.160	7,420.72	672.27	-4,671.59	4,719.69	2.19
11,803.00	94.60	263.350	7,412.86	662.80	-4,765.78	4,811.64	1.92
11,846.00	94.74	263.420	7,409.36	657.86	-4,808.35	4,853.11	0.36
Final Sperry MWD Surveys @ 11846.00' MD							
11,918.00	94.74	263.420	7,403.41	649.64	-4,879.63	4,922.55	0.00
Straight Line Projection to TD @ 11918.00' MD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
146.00	146.00	0.02	-0.47	First Sperry MWD Survey @ 146.00' MD
11,846.00	7,409.36	657.86	-4,808.35	Final Sperry MWD Surveys @ 11846.00' MD
11,918.00	7,403.41	649.64	-4,879.63	Straight Line Projection to TD @ 11918.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	Wasatch 5H-1-46 BTR_Plan B - Rev0_BHL Tgt	278.003	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	11,918.00	Sperry MWD Final Surveys	MWD

Design Report for Wasatch 5H-1-46 BTR - MWD Final Surveys

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
5-6D-45 BTR_Sec.1	0.00	0.00	0.00	14.93	-0.84	667,622.29	2,279,392.88	40° 9' 43.268 N	110° 30' 1.091 W
- actual wellpath misses target center by 14.96ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				-943.84	1,988.93	669,585.46	2,278,427.95		
Point 2				-943.84	-1,990.07	665,607.05	2,278,472.42		
Point 3				-4,922.84	-1,978.07	665,574.58	2,274,493.87		
Point 4				-4,922.84	2,006.93	669,558.99	2,274,449.34		
Point 5				-943.84	1,988.93	669,585.46	2,278,427.95		
5-6D-45 BTR_Sec. 1	0.00	0.00	0.00	14.93	-0.84	667,622.29	2,279,392.88	40° 9' 43.268 N	110° 30' 1.091 W
- actual wellpath misses target center by 14.96ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				-283.84	2,648.93	670,252.74	2,279,080.48		
Point 2				-283.84	-2,650.07	664,954.52	2,279,139.70		
Point 3				-5,582.84	-2,638.07	664,907.30	2,273,841.35		
Point 4				-5,582.84	2,666.93	670,211.52	2,273,782.06		
Point 5				-283.84	2,648.93	670,252.74	2,279,080.48		
Wasatch 5H-1-46 B1	0.00	0.00	7,390.00	686.43	-4,882.58	668,239.13	2,274,504.35	40° 9' 49.900 N	110° 31' 3.968 W
- actual wellpath misses target center by 39.27ft at 11917.82ft MD (7403.42 TVD, 649.66 N, -4879.46 E)									
- Point									
Wasatch 5H-1-46 B1	0.00	0.00	7,616.00	671.82	-1,420.30	668,263.22	2,277,966.28	40° 9' 49.760 N	110° 30' 19.374 W
- actual wellpath misses target center by 95.13ft at 8445.78ft MD (7607.67 TVD, 766.56 N, -1417.93 E)									
- Point									
Wasatch 5H-1-46 B1	0.00	0.00	7,408.50	686.43	-4,882.58	668,239.13	2,274,504.35	40° 9' 49.900 N	110° 31' 3.968 W
- actual wellpath misses target center by 37.22ft at 11916.30ft MD (7403.55 TVD, 649.83 N, -4877.95 E)									
- Point									
Wasatch 5H-1-46 B1	0.00	0.00	7,625.00	670.00	-984.00	668,266.27	2,278,402.54	40° 9' 49.742 N	110° 30' 13.754 W
- actual wellpath misses target center by 55.20ft at 8000.28ft MD (7632.44 TVD, 724.04 N, -975.55 E)									
- Point									

HALLIBURTON**North Reference Sheet for Sec. 6-T4S-R5W (BTR 6-45 PAD) - Wasatch 5H-1-46
BTR - Plan B**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB=23' @ 5955.00ft (Nabors M-22). Northing and Easting are relative to Wasatch 5H-1-46 BTR - Slot A2

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000 W°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991507

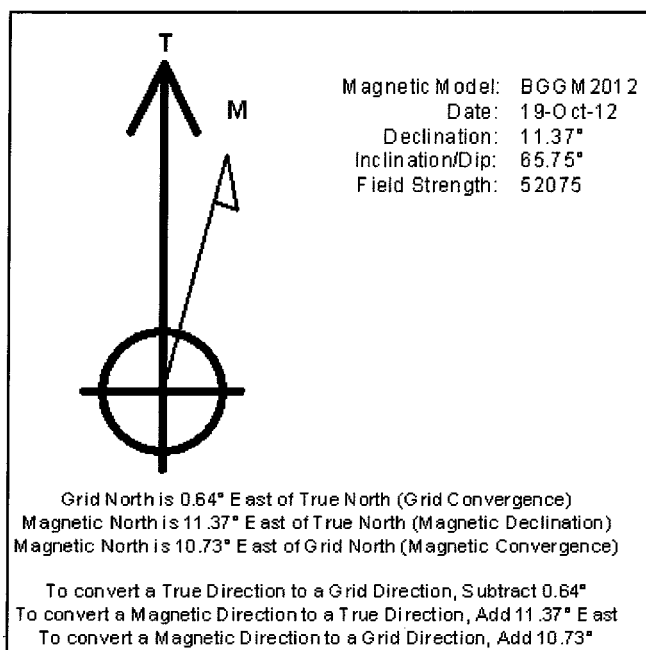
Grid Coordinates of Well: 667,607.37 ft N, 2,279,393.88 ft E

Geographical Coordinates of Well: 40° 09' 43.12" N, 110° 30' 01.08" W

Grid Convergence at Surface is: 0.64°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,918.00ft
the Bottom Hole Displacement is 4,922.69ft in the Direction of 277.58° (True).

Magnetic Convergence at surface is: -10.73° (19 October 2012, , BGGM2012)

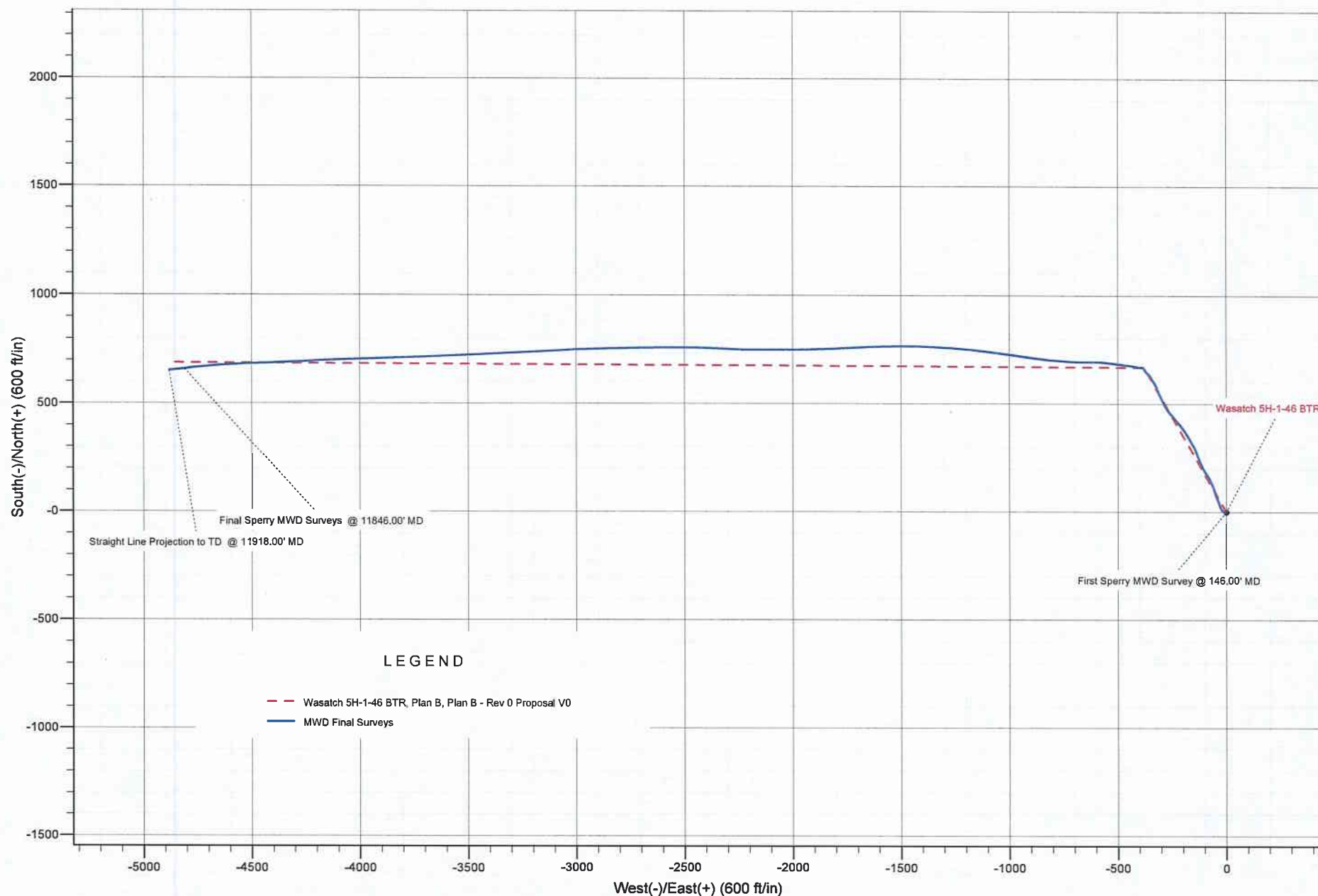


Project: Duchesne County, UT (NAD 1927)
Site: Sec. 6-T4S-R5W (BTR 6-45 PAD)
Well: Wasatch 5H-1-46 BTR

Bill Barrett Corp

HALLIBURTON

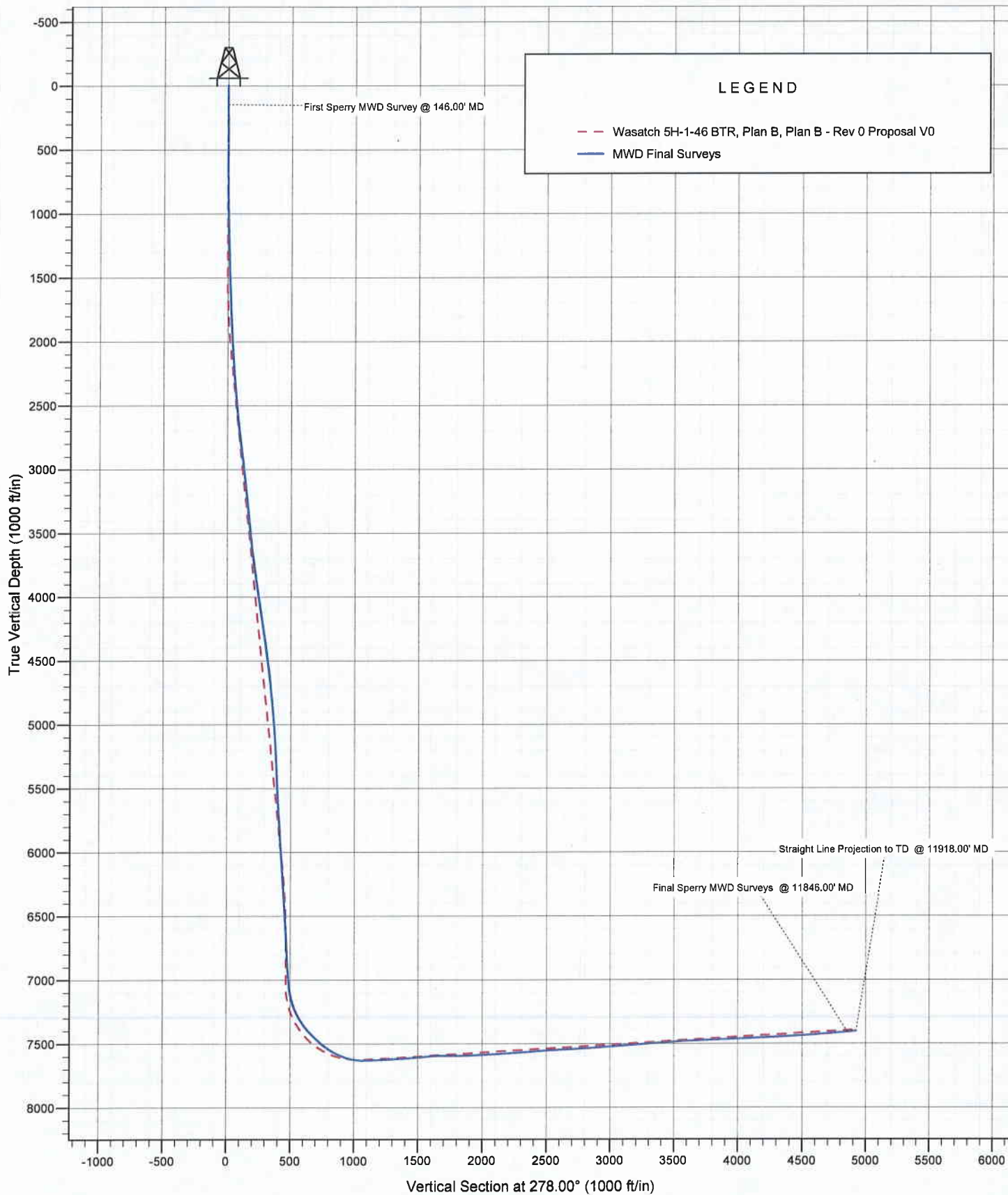
Sperry Drilling



Project: Duchesne County, UT (NAD 1927)
Site: Sec. 6-T4S-R5W (BTR 6-45 PAD)
Well: Wasatch 5H-1-46 BTR

Bill Barrett Corp

HALLIBURTON
Sperry Drilling



5H-1-46 BTR WA Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u><i>Stage</i></u>	<u><i>BBS Slurry</i></u>	<u><i>gal 15% FE Acid</i></u>	<u><i>lbs 20/40 White Sand</i></u>
1	1629		140,300
2	1626		140,200
3	1607		140,300
4	1603		140,300
5	1600		140,200
6	1600		140,200
7	1601		140,100
8	1601		140,200
9	1605		140,500
10	1479		129,200
11	1636		141,100
12	1266		110,400

*Depth intervals for frac information same as perforation record intervals.

**Bill Barrett Corporation****5H-1-46 TW BTR 11/1/2012 21:00 - 11/2/2012 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	6.00	03:00	1	RIGUP & TEARDOWN	Prepare & Skid rig. Rurt.
03:00	1.00	04:00	14	NIPPLE UP B.O.P	N/U riser, flow line. Rig on daywork @ 03:00.
04:00	1.00	05:00	20	DIRECTIONAL WORK	P/U dir tools.
05:00	1.00	06:00	2	DRILL ACTUAL	Drill 80' - 150'.

5H-1-46 TW BTR 11/2/2012 06:00 - 11/3/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	Drill 150' - 176'.
07:30	1.50	09:00	20	DIRECTIONAL WORK	P/U dir tools, Scribe toolface.
09:00	8.50	17:30	2	DRILL ACTUAL	Drill/Slide 176' - 586'. Wob 5k, rpm 45/85, spp 1300 psi, dp 300 psi, rop 48 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/Slide 586' - 1432'. Wob 5k, rpm 45/85, spp 1300 psi, dp 300 psi, rop 73 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 TW BTR 11/3/2012 06:00 - 11/4/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	Drill/Slide 1432' - 2096'. Wob 15k, rpm 55/99, gpm 585, spp 1300 psi, dp 300 psi, rop 78 fph.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig Service.
15:00	10.50	01:30	2	DRILL ACTUAL	Drill/Slide 2096' - 2511'. Wob 15k, rpm 55/99, gpm 585, spp 1300 psi, dp 300 psi, rop 40 fph.
01:30	1.00	02:30	5	COND MUD & CIRC	Sweep hole, C&C f/ csg.
02:30	4.50	07:00	6	TRIPS	TOH. L/D dir tools.

5H-1-46 TW BTR 11/4/2012 06:00 - 11/5/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	HSM. R/U Frank's Westates, run 9 5/8", 36#, J-55, ST&C Csg as follows: Float shoe, 1 jt casing, Float collar, 56 jts csg. Tagged @ 2511', set @ 2508'. R/D casers. Bottom 4 couplings welded.
10:00	2.00	12:00	5	COND MUD & CIRC	C&C f/ cement. R/U HES cementers.
12:00	2.50	14:30	12	RUN CASING & CEMENT	HSM. Cement well as follows: Press test lines to 3000 #. Pump 20 bbls H2O, 40 bbls Superflush, 20 bbls H2O. Mix and pump 169 bbls(300 sx) lead cement @ 11 ppg, 3.16 yld, 19.48 gps H2O. Tail in w/56 bbls(235 sx) cement @ 14.8 ppg, 1.33 yld, 6.31 gps H2O. Wash up on plug, displace w/ 190.6 bbls 8.9 ppg drilling mud. Full returns, returned 80 bbls to surface. Reciprocated pipe during cementing. Max press 580 psi, bump plug to 1000 psi. Plug landed @ 14:30.
14:30	3.50	18:00	13	WAIT ON CEMENT	Cement fell 4' in 1 hr. R/D HES. WOC.
18:00	3.00	21:00	14	NIPPLE UP B.O.P	Lift riser, cut csg. Weld on 11" X 9 5/8" 5K SOW Csg Head.
21:00	2.50	23:30	14	NIPPLE UP B.O.P	NUBOPE.
23:30	2.50	02:00	15	TEST B.O.P	Test Bop. Short test - Test blind rams, choke line, manifold, super choke to 2500 psi high, 250 psi low. Test surf csg to 1500 psi f/30 minutes.
02:00	2.00	04:00	20	DIRECTIONAL WORK	Install wear bushing. P/U and orient 6" dir tools.
04:00	2.00	06:00	6	TRIPS	Tih. Tag cmt @ 2451'.

5H-1-46 TW BTR 11/5/2012 06:00 - 11/6/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	21	Drill cmt	Drill cmt, float equip & 20' new hole to 2531'.
07:00	0.50	07:30	21	F.I.T.	Perform FIT to 145 psi for 10 ppg emw.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:30	4.00	11:30	2	DRILL ACTUAL	Drill 2531' - 2810'.
11:30	4.00	15:30	6	TRIPS	TOH. Bop drill.
15:30	2.00	17:30	15	TEST B.O.P	Test BOP. Test lower kelly valve, dart, safety, inside valves, hcr, pipe rams to 5000 psi high, 250 psi low.
17:30	3.00	20:30	6	TRIPS	Install wear bushing. Tih.
20:30	6.00	02:30	2	DRILL ACTUAL	Drill/Slide 2810' - 3355'. Wob 15k, rpm 50/99, spp 2000 psi, dp 250 psi, rop 91 fph.
02:30	1.00	03:30	21	OPEN	Circulate gas out, raise mw f/9 ppg to 9.2 ppg.
03:30	2.00	05:30	2	DRILL ACTUAL	Drill/Slide 3355' - 3517'. Wob 15k, rpm 47/99, gpm 585, spp 2200 psi, dp 250 psi, rop 81 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 TW BTR 11/6/2012 06:00 - 11/7/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill/Slide 3517' - 5222'. Wob 22k, rpm 48/99, gpm 585, spp 2300 psi, dp 250 psi, rop 71 fph.

5H-1-46 TW BTR 11/7/2012 06:00 - 11/8/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 5222' - 5697'. Wob 20k, rpm 48/99, gpm 585, spp 2300 psi, dp 250 psi, rop 42 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/Slide 5697' - 6073'. Wob 20k, rpm 48/99, gpm 585, spp 2350 psi, dp 150 psi, rop 33 fph. Inc 5.84*, Az 326.52 @ 6011' - 9.07' high and 4.07' right of plan
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. Bop drill both tours.

5H-1-46 TW BTR 11/8/2012 06:00 - 11/9/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/Slide 6073' - 6641'. Survey @ 6579 5.58* inc. 322.79* az. MW 9.2#/gal 45 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, Function test BOP.
18:00	10.00	04:00	2	DRILL ACTUAL	Drill/Slide 6641-7090'. Survey @ 7020 4.65* inc 270.18* az. MW 9.3#/gal 51 vis
04:00	1.50	05:30	5	COND MUD & CIRC	Circulate clean. Do flow check. Pump dryjob.
05:30	1.00	06:30	6	TRIPS	Begin TOH

5H-1-46 TW BTR 11/9/2012 06:00 - 11/10/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	5	COND MUD & CIRC	4500 units gas. Circ and condition. Raise mud wt to 9.4#/gal gas down to 500 units. Do flow check. No flow. Pump dryjob.
07:30	10.50	18:00	6	TRIPS	TOH. Laydown 6" collars. Reconfigure BHA for drilling curve.
18:00	5.00	23:00	6	TRIPS	TIH
23:00	20.00	19:00	1		Log in from 6800' with Gamma-Ray
19:00	1.00	20:00	2	DRILL ACTUAL	Drig/sliding 7090-7105'. lost returns
20:00	5.00	01:00	5	COND MUD & CIRC	Lost app 350 bbls. Pump lcn pill. build volume. Regained returns. Build volume and raise lcn content to 20%.

5H-1-46 TW BTR 11/10/2012 06:00 - 11/11/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51216			Black Tail Ridge	PRODUCING	11,918.0	Drilling & Completion



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	2	DRILL ACTUAL	Drill/slide 7107-7397'. 290' in 12 hrs 22.3 fph. Survey @ 7350' MD 7276.41 TVD 27.04* INC 276.34 AZ. mw 9.5#/gal 46 vis.
18:00	0.50	18:30	7	LUBRICATE RIG	Rig service, function test BOP.
18:30	11.50	06:00	2	DRILL ACTUAL	survey at 7508 MD, 7405.10 TVD 41.94* inc 275.76 azi. +N/-S 691.76, +E/-W -554.21 app 39' above line. M/W 9.7#/gal 52 vis.

5H-1-46 TW BTR 11/11/2012 06:00 - 11/12/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drlg/sliding 7650-7669'. Survey @ 7572' md (tvd 7450.56) 46.8* inc, 269.86 az. +N/-S 963.9 +E/-W -600.97. MW 9.7+. Cannot get weight to bit while sliding. Prep to TOH and reconfigure BHA. Lost returns.
08:00	7.50	15:30	5	COND MUD & CIRC	Mix and pump LCM. Build volume. Spot LCM pill on bottom. Regained circ while spotting pill. TOH to 6924'. Circ bottoms up.
15:30	4.00	19:30	6	TRIPS	TOH to reconfigure BHA.
19:30	3.00	22:30	20	DIRECTIONAL WORK	Reconfigure BHA. P/U new Smith FHI 20 (517x) Dir eq. 30 jts 4.5" 16.6# drillpipe. 42 jts 42# HWDP.
22:30	1.00	23:30	9	CUT OFF DRILL LINE	Slip & cut drlg line
23:30	0.50	00:00	7	LUBRICATE RIG	Rlg service. Function test BOP.
00:00	3.50	03:30	6	TRIPS	TIH to 6824'. filling every 15 stds.
03:30	1.00	04:30	5	COND MUD & CIRC	Circulate and cut MW.

5H-1-46 TW BTR 11/12/2012 06:00 - 11/13/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	Circ and cut MW back to 9.5#
06:30	1.50	08:00	3	REAMING	Wash & ream thru curve.
08:00	17.00	01:00	2	DRILL ACTUAL	Drlg slide 7669-7944' 275 in 17 hrs. Survey @ 7905md (7619.94 tvd) 76.31* inc. 277.17* az Got sticky and having trouble getting wt to bit. Mix lube and EZ drill. Continue to work pipe and slide.
01:00	0.50	01:30	7	LUBRICATE RIG	Rig service, function test BOP
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/slide 7944-8015 Survey @ 7905 76.31* inc 277.17 az +N/-S 710.64 +E/-w -882.22. MW 9.8#/gal 55 vis.

5H-1-46 TW BTR 11/13/2012 06:00 - 11/14/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	Drill/Slide 8015' - 8052'.
09:00	1.50	10:30	5	COND MUD & CIRC	C&C, sweep hole.
10:30	7.00	17:30	6	TRIPS	Toh. Reamed to 6900'.
17:30	0.50	18:00	20	DIRECTIONAL WORK	L/D Dir tools.
18:00	12.00	06:00	3	REAMING	P/U Bull nose hole opener, 2 reamers, tih, Reaming as needed(F/7100' to TD).

5H-1-46 TW BTR 11/14/2012 06:00 - 11/15/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	3	REAMING	Ream last 100' of hole.
08:00	1.50	09:30	5	COND MUD & CIRC	C&C, sweep hole.
09:30	1.50	11:00	6	TRIPS	Pump 12 stds out of hole to top of curve. Pump slug, blow down kelly.
11:00	2.00	13:00	6	TRIPS	Lddp. Pragma broke.
13:00	6.50	19:30	8	REPAIR RIG	Tripped into shoe while repairing pragma.
19:30	0.50	20:00	7	LUBRICATE RIG	Rig Service.
20:00	4.50	00:30	8	REPAIR RIG	Repair pragma.
00:30	1.00	01:30	8	REPAIR RIG	Tih(caused by downtime).



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
01:30	1.00	02:30	6	TRIPS	Lddp. Pulled reamer into rot rubber. Pulled bolts out of annular.
02:30	3.50	06:00	8	REPAIR RIG	Repair and replace damage caused by running into rubber.

5H-1-46 TW BTR 11/15/2012 06:00 - 11/16/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	8	REPAIR RIG	Repair flow line and dresser sleeve.
10:00	1.00	11:00	12	RUN CASING & CEMENT	HSM. R/U Casers while working on flowline. Decided to make 2nd reamer trip, R/D Casers.
11:00	19.00	06:00	8	REPAIR RIG	Install wear bushing. Tried to get rot head bearing off of reamer, couldn't(already had replacement reamer on the way). Rack & tally 4" DP & reamer assbly, tih to make 2nd reamer run. Out of the hole too long, Trip and subsequent reaming charged to Nabors. Light reaming to 7800'.

5H-1-46 TW BTR 11/16/2012 06:00 - 11/17/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	8	REPAIR RIG	Finish reaming to 8052'. Double reamed last 150'. Hole sticky.
08:00	2.00	10:00	8	REPAIR RIG	Sweep hole twice, C&C f/csg.
10:00	8.00	18:00	8	REPAIR RIG	Pump pipe out of curve to 6800', pump slug, toh.
18:00	12.00	06:00	12	RUN CASING & CEMENT	Pull wear bushing. HSM. R/U Frank's to run 7", 26#, P-110, Lt&c csg. Details on next report.

5H-1-46 TW BTR 11/17/2012 06:00 - 11/18/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	12	RUN CASING & CEMENT	Finish running 7", 26#, P-110 Csg as follows: Float shoe, 2 jts csg, float collar, 184 jts csg. Landed @ 7927'(125' short of td). R/D casers.
18:00	5.00	23:00	12	RUN CASING & CEMENT	HSM. R/U Halliburton cementers. Cement well as follows: Press test to 5000 psi. Pump 40 bbls superflush @ 10 ppg, 10 bbls H2O, mix and pump 225 bbls(545 sx) lead cmt @ 11 ppg, 2.32 yld, 10.61 gps H2O. mix and pump 87 bbls(345 sx) tail cmt @ 13.5 ppg, 1.42 yld, 6.65 gps H2O. Drop plug, wash up on plug. Pump 304 bbls mud @ 9.8 ppg. Max press 2200 psi(pressured up a couple times), final press 1400 psi. No returns throughout job. Bump plug to 2000 psi, floats held, bled back 2 bbls. R/D Halliburton.
23:00	4.00	03:00	14	NIPPLE UP B.O.P	Break bottom flange, lift stack. Set slips on 7" csg, cut off, set weldment.
03:00	2.00	05:00	14	NIPPLE UP B.O.P	NUBOP.
05:00	1.00	06:00	15	TEST B.O.P	Test Blinds to 5000 psi/high, 250 psi/low. Test csg to 1500 psi for 30 minutes.

5H-1-46 TW BTR 11/18/2012 06:00 - 11/19/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	7	LUBRICATE RIG	Rig Service - X/O I-Bop.
07:00	6.00	13:00	20	DIRECTIONAL WORK	Rack and Tally Dir tools, P/U tools, make up bit.
13:00	4.50	17:30	6	TRIPS	Tih. Tagged cmt @ 7775'.
17:30	12.50	06:00	5	COND MUD & CIRC	C&C mud, add spike fluid for 2% Kcl. Mud clabbered up, trying to break it back so we can pump it and drill.

5H-1-46 TW BTR 11/19/2012 06:00 - 11/20/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	5	COND MUD & CIRC	Finish building mud for horizontal section.
07:00	6.50	13:30	21	OPEN	Drill cmt & fit equip. Clean out rathole to 7959'. Bit plugged.
13:30	6.50	20:00	6	TRIPS	Toh. X/O bit, mm.

**Bill Barrett Corporation****Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
20:00	5.00	01:00	6	TRIPS	Tih. Start washing to bottom @ 7915'.
01:00	5.00	06:00	21	OPEN	Clean out rathole to 8052'.

5H-1-46 TW BTR 11/20/2012 06:00 - 11/21/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	20	DIRECTIONAL WORK	Trouble shoot tools, had bad connection.
06:30	10.50	17:00	2	DRILL ACTUAL	Drill/Slide 8052' - 8276'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 21 fph. 91.68*, 275.74 az @ 8203'. Bop Drill.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig Service.
17:30	2.50	20:00	2	DRILL ACTUAL	Drill/Slide 8276' - 8339'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 25 fph. 94.61*, 273.87 az @ 8330'.
20:00	2.00	22:00	20	DIRECTIONAL WORK	Work on Mwd computer.
22:00	2.50	00:30	2	DRILL ACTUAL	Drill/Slide 8339' - 8390'. Wob 10-25k, rpm 70/72, spp 2500 psi, dp 200 psi, rop 25 fph. 94.80*, 273.87 az @ 8361'.
00:30	1.00	01:30	7	LUBRICATE RIG	Rig Service. Work on top drive.
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/Slide 8390' - 8521'. Wob 10-25k, rpm 70/72, spp 2600 psi, dp 280 psi, rop 29 fph. 94.91*, 272.90 az @ 8393'. Bop Drill.

5H-1-46 TW BTR 11/21/2012 06:00 - 11/22/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/Slide 8521' - 8717'. 90.27*, 268.02 az, 1707.33 vs @ 8645' md/7594.66' tvd.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	2.50	18:00	20	DIRECTIONAL WORK	Rebooting MWD computer.
18:00	2.00	20:00	6	TRIPS	Pull into shoe to work on rig(brake sensors).
20:00	7.50	03:30	8	REPAIR RIG	Troubleshoot /adjust SCR/Electrical brake resistor/chopper failure. Tih.
03:30	1.00	04:30	20	DIRECTIONAL WORK	Troubleshoot connection to doghouse.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/Slide 8717' - 8749'.

5H-1-46 TW BTR 11/22/2012 06:00 - 11/23/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill/Slide 8749' - 8939'. 92.18*, 267.06 az, @ 8867' md/7591.57' tvd.
14:00	1.00	15:00	7	LUBRICATE RIG	Rig Service. Adjust brake resistor.
15:00	1.50	16:30	21	OPEN	Standpipe and diff pressure too high. Rotate & reciprocate to free. Actuated I-Bop, cleared problem up.
16:30	13.50	06:00	2	DRILL ACTUAL	Drill/Slide 8939' - 9318'. 92.86*, 269.72 az, @ 9214' md/7568' tvd. .29' high, 5' rt of plan.

5H-1-46 TW BTR 11/23/2012 06:00 - 11/24/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/Slide 9318' - 9507'. Having trouble getting weight to bit - increased lube, running lubra-bead sweeps.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service.
16:00	2.00	18:00	2	DRILL ACTUAL	Drill/Slide 9507' - 9539'. 93.83*, 272.46 az @ 9467'/7553.75'. 3.29' high, 19.29' right of plan.
18:00	1.00	19:00	5	COND MUD & CIRC	Sweep hole, C&C f/trip.
19:00	2.50	21:30	6	TRIPS	Backream to shoe.
21:30	8.50	06:00	6	TRIPS	Toh. L/D mm, bit.

**Bill Barrett Corporation****5H-1-46 TW BTR 11/24/2012 06:00 - 11/25/2012 06:00**

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	20	DIRECTIONAL WORK	P/U new mm, bit, dir tools. Orient tools.
09:00	2.00	11:00	6	TRIPS	Tih.
11:00	1.00	12:00	21	OPEN	Cut and slip drilling line.
12:00	3.50	15:30	6	TRIPS	Finish tih. Circ to bottom f/shoe.
15:30	12.50	04:00	2	DRILL ACTUAL	Drill/Slide 9539' - 9886'. Increased lube to 4%.
04:00	0.50	04:30	7	LUBRICATE RIG	Rig Service.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/Slide 9886' - 9917'. 93.39°, 268.59 az @ 9782/7535.36', 2830 VS. Target # 5 - 7500' TVD @ 3500' VS. 3.21' low, 3.34' right of plan.

5H-1-46 TW BTR 11/25/2012 06:00 - 11/26/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/Slide 9917' - 10183'. Double reaming every connection. Not able to slide - excessive torque trying to get to bottom, taking excessive weight.
15:00	1.50	16:30	5	COND MUD & CIRC	Stand back 1 stand, ream and backream hole. Send 40 vis sweeps followed by 56 vis sweeps, add lube.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	4.00	21:00	2	DRILL ACTUAL	Drill/Slide 10183' - 10219'. Rig brakes failed.
21:00	9.00	06:00	8	REPAIR RIG	Work to get brakes to reset. Able to circ and rotate, but can't pick up off bottom. Ran low then high vis sweep, cleared sweep and kicked pump in and rotated twice an hour while waiting on electrician(not here at report time). 94.7°, 266.67 az, 3140.21' vs @ 10098/7513.14' - 2.4' low, 2.38' right of plan..

5H-1-46 TW BTR 11/26/2012 06:00 - 11/27/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	8	REPAIR RIG	Wait on electrician. Repair brake electric.
09:30	0.50	10:00	3	REAMING	W&R hole, pump sweep.
10:00	5.00	15:00	2	DRILL ACTUAL	Drill/Slide 10219' - 10359'.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	13.50	05:00	2	DRILL ACTUAL	Drill/Slide 10359' - 10644'.
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.
05:30	0.50	06:00	2	DRILL ACTUAL	Drill/Slide 10644' - 10660'. 93.39°, 266.67 az, 3572.9 vs @ 10540/7481.17' - .81' high. 6.98' left of plan. BOP drill both tours. Sliding better w/increased lube(4%) and higher kcl(4%).

5H-1-46 TW BTR 11/27/2012 06:00 - 11/28/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/Slide 10660' - 10927'.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service.
16:30	13.00	05:30	2	DRILL ACTUAL	Drill/Slide 10927' - 11306'. 92.28°, 267.72 az, 4162.96' vs @ 11140/7455.23' - 4.9' low, 5.58' left of plan.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. BOP drill both tours.

5H-1-46 TW BTR 11/28/2012 06:00 - 11/29/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	Slide 11306' - 11314'. Taking too much weight and torque to get to bottom.
07:00	3.00	10:00	3	REAMING	W&R up to 10926'. Sweep hole w/low vis then high vis sweeps.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	11.50	21:30	2	DRILL ACTUAL	Drill/Slide 11314' - 11496'.
21:30	0.50	22:00	7	LUBRICATE RIG	Rig Service.
22:00	8.00	06:00	2	DRILL ACTUAL	Drill/Slide 11496' - 11653'. 94.97°, 268.65 az, 4533.81' vs @ 11518'/7435' - 6.98' low, 13.31' left of plan

5H-1-46 TW BTR 11/29/2012 06:00 - 11/30/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill rotate 11653' - 11785 Drill and slide. Survey @ 11708 94.9° inc, 265.16° az MW 9.6#/gal 53 vis
14:00	0.50	14:30	7	LUBRICATE RIG	Rig Service, function test BOP.
14:30	3.00	17:30	2	DRILL ACTUAL	Drill 11785-11918'. (TVD 7403.41)MW 10.6#/gal 57 vis.
17:30	2.00	19:30	5	COND MUD & CIRC	Mix and pump 2 wighted pills. Pump them around and pump 1 more bottoms up.
19:30	2.00	21:30	6	TRIPS	POH to csg shoe pulling 35K over. Did not rotate or pump.
21:30	1.00	22:30	5	COND MUD & CIRC	Circulate bottoms up and pump dryjob.
22:30	2.50	01:00	6	TRIPS	TOH to L/D Dir equip and pickup reaming assembly.
01:00	2.00	03:00	20	DIRECTIONAL WORK	L/D Dir equipment. Function test BOP.

5H-1-46 TW BTR 11/30/2012 06:00 - 12/1/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	6	TRIPS	TOH to csg shoe (7920)
10:30	1.00	11:30	5	COND MUD & CIRC	Circulate bottoms up @ 7920
11:30	1.50	13:00	6	TRIPS	Trip in hole, Taking most of string wt to move DP @ 10900'. Rotate slowly and went right in to TD.
13:00	0.50	13:30	5	COND MUD & CIRC	Circulate bottoms up. Had 2800 units trip gas.
13:30	6.00	19:30	21	Pump fluid caliper	Mix red dye and pump fluid caliper. Could not see dye in returns. Mix LCM flag and try again. Spotted flag volume shows near guage wellbore.
19:30	2.50	22:00	6	TRIPS	TOH to csg shoe. Pulled 30-50K over. TIH rotated in from 11300'.
22:00	1.50	23:30	5	COND MUD & CIRC	Pump sweep and circ 2 bottoms up. 4900 units trip gas.
23:30	1.00	00:30	6	TRIPS	TOH for liner.

5H-1-46 TW BTR 12/1/2012 06:00 - 12/2/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	6	TRIPS	TOH to run liner. Stand back 58 std DP 41 jts WWDP. Lay down 1 jt HWDP that rabbit wouldn't go thru. L/D remaining drillpipe
14:30	8.00	22:30	12	RUN CASING & CEMENT	Rig up weatherford csg crew. HSM Pickup 4 1/2" 11.6# P110 liner, Make up float shoe, 2 jt shoe track, float collar, landing collar, 1 jt, RSI sleeve. Then 112 jts. Fill and check floats, then fill every 10 jts. Pickup Versa-flex liner hanger and rig down csg crew.
22:30	7.50	06:00	12	RUN CASING & CEMENT	Run drillpipe etc from derrick filling and breaking circ every 10 stds. End of Liner @ 11899 and picking up pup jts at report time.

5H-1-46 TW BTR 12/2/2012 06:00 - 12/3/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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**Bill Barrett Corporation****Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	12	RUN CASING & CEMENT	TIH with 4.5" liner. Work to bottom. Bottom of liner assembly @ 11921'. Top of PBTR 7020'. Break circulation and circulate 3 bottoms up. Move in and rig up HES cmt and N2. HSM Rig up cmt head etc. Pressure test cmt and N2 lines to 10000#, test casing side to 3000#. Pump 40 bbl Tuned Spacer 111 (12ppg) then 76 bbls (215sks) elastiseal lead cmt @14.3 ppg foamed to 12.5 ppg and 17.72 bbl (50 sks) Elastiseal tail cmt @ 14.3 ppg. Wash pump & lines. Drop drillpipe dart. Displace as follows 75 bbls with cla-web & aldecide for liner followed by 71 bbls mud. Caught wiper plug 67 bbls into displacement Did not bump plug.. Check floats. floats holding. Drop 1.875" ball to shear disc in liner hanger. Allow 45 minutes to fall. Pressure up to set liner hanger. Sheared @ 8000#. Inflate packer. Do 80K overpull test and release from liner top pull up to 6910' and circulate cmt from liner top. Attempt to pressure test liner. Pump 1.5 bpm @ 2000#. Circulate 7" with water with cla-web and aldecide.
20:00	7.00	03:00	13	WAIT ON CEMENT	Close well in and monitor pressure for 4 hrs. Pressure 150# due to heat expansion. Bleed off and check for flow. No flow.
03:00	3.00	06:00	6	TRIPS	LDDP.

5H-1-46 TW BTR 12/3/2012 06:00 - 12/4/2012 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	6	TRIPS	LDDP. well taking correct amount of fluid. L/D liner running tool.
12:00	5.00	17:00	14	NIPPLE UP B.O.P	N/D BOP and remove wear bushing and install hole cover. Prep rig to move. Rig released @ 1700 hrs.

5H-1-46 TW BTR 2/1/2013 06:00 - 2/2/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	IWHD	Install Wellhead	HSM. CHECK PRESSURES. ND NIGHT CAP. INSTALL 7" 10K TBG HEAD. PRESSURE TEST VOID. GOOD. NU NIGHT CAP.

5H-1-46 TW BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	RU SLB. RIH W/ 3.63" GR/JB. 4-1/2" LINER TOP AT 7007'. START STACKING OUT AT 6900'. 3.44" ICL, PULLING 250# OVER AS START POOH. RD SLB AND MOVE OVER.

5H-1-46 TW BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	RMOV	Rig Move	ROAD RIG FROM 13H-33-46 TO LOCATION.
08:00	2.50	10:30	GOP	General Operations	SPOT IN RIG. WAIT ON DEADMEN TO BE SET.
10:30	1.00	11:30	SRIG	Rig Up/Down	RUSU.
11:30	3.00	14:30	BOPI	Install BOP's	ND NIGHT CAP. NU 7" 5 X 7" 10 SPOOL, BOP. MUD CROSS, ANNULAR, STRIPPING HEAD. RU FLOOR. SPOT IN CATWALK AND PIPE RACKS. MOVE IN TBG.
14:30	4.00	18:30	RUTB	Run Tubing	MU 6-1/8" BIT, BIT SUB, 1 JT, 2.31 XN. RIH AS MEAS AND PU 176-JTS TBG. EOT AT 5667'. SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	1.00	08:00	RUTB	Run Tubing	HSM. 0 PSI. OPEN UP WELL. CONT RIH AS PU 2-7/8" TBG. TAG TOP OF LINER AT 6998' W/ 4' UP #220.
08:00	2.50	10:30	CTU	Clean Out	LAY PMP LINES AND REV CIRC CLEAN WITH 250 BBLs. HAD HEAVY THICK GRAY SLUDGE IN RETURNS.
10:30	2.00	12:30	PULT	Pull Tubing	POOH W/ 220-JTS 2-7/8" TBG. LD 6-1/8" BIT.
12:30	2.50	15:00	RUTB	Run Tubing	MU 3-7/8" BIT, BIT SUB, 1-JT 2-3/8", AND 1.87" XN NIPPLE, RIH AS PU 19-JTS 2-3/8" TBG, X-OVER AND RIH W/ 200-JTS 2-7/8" TBG. WENT THRU 4-1/2" LT AT 6998' WITH TAG AND DROP. CONT RIH TO 7614' WITH BIT. (49" INC)
15:00	1.00	16:00	CTU	Clean Out	REV CIRC WITH 100 BBLs. HAD SOME GRAY SLUDGE THEN CAME CLEAN.
16:00	2.00	18:00	PULT	Pull Tubing	POOH W/ 219-JTS 2-7/8" TBG AND 20-JTS 2-3/8". LD 3-7/8" BIT.

5H-1-46 TW BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEK,
07:00	3.00	10:00	RUTB	Run Tubing	SICP 0. MU MILLER 4-1/2" PHD PKR, 1-JT 2-3/8" TBG, XN NIPPLE, 5-JTS 2-3/8" L-80 TBG, X-OVER, AND 219-JTS 2-7/8" TBG. THRU 4-1/2" LT AT 6998' AND SET PKR AT 7164'.
10:00	1.00	11:00	PTST	Pressure Test	PRES TEST DOWN CSG TO LINER LAP TO 2000 PSI FOR 15 MIN. GOOD TEST. BLEED OFF.
11:00	3.00	14:00	PULT	Pull Tubing	RELEASE PKR. POOH AS LD 2-7/8" TBG, X-OVER, 2-3/8" AND PKR.
14:00	3.50	17:30	LOGG	Logging	MIRU SLB. RUN CBL (NO PRESSURE). LOG FROM 7620'. 7620'-7480' FAIR. 7480' TO LINERTOP AT 6998' FAIR TO RATTY. (7") LT - 3948" FAIR. TOC AT 3948'. RD SLB. RD TBG EQUIP. RD SLB.
17:30	0.50	18:00	GOP	General Operations	RD TBG EQUIP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 TW BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	3.50	10:30	GOP	General Operations	SICP 0. X-OUT PIPE RAMS. MOVE CATWALK AND RACKS FOR CSG. UNLOAD 180 -JTS 4-1/2" 11.6# P-110 CSG. MIRU WEATHERFORD CSG CREW.
10:30	6.00	16:30	RUTB	Run Tubing	HSM. MU HES PBR SEAL ASSY. RIH WITH 4-1/2", 11.6#, P-110 CSG MADE UP TO 3020#. STING IN AND LD 3-JTS. SPACE OUT TO LAND IN 40K COMPRESSION. SCREW IN HOLD DOWN PINS. PRES TEST ANNULUS TO 2000 PSI FOR 15 MIN. SOLID. CSG DETAIL KB 24.00 HANGER .75 40K COMPRESSION -2.70 4-1/2" PUP JT 2.95 1-JTS 4-1/2" CSG 42.50 4-1/2" PUP JT 9.40 4-1/2" PUP JT 8.70 4-1/2" PUP JT 3.10 177-JTS 4-1/2" CSG 6905.18 HES NO GO 1.23 (11.81' STUNG INTO PBR) SETTING AT 7005.20
16:30	1.50	18:00	GOP	General Operations	RD MO WEATHERFORD. RD FLOOR. MOVE CATWALD AND RACKS. DRAIN EQUIP. SDFN.

5H-1-46 TW BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	2.00	09:00	IWHD	Install Wellhead	SITP 0, SICP 0. ND BOP. INSTALL 4" 10K X 7" 10K ADAPTER SPOOL, 4-1/16" 10K FRAC VALVES AND FRAC HEAD. TEST SEALS.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:00	0.50	09:30	SRIG	Rig Up/Down	RDSU.
09:30	20.50	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. READY TO OPEN RSI.

5H-1-46 TW BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 TW BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 TW BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

5H-1-46 TW BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	GOP	General Operations	MIRU HES AND SLB WITH 2 WT BARS AND 4-1/2" HES DUMMY PLUG. HSM.
08:00	2.00	10:00	ACID	Acid Wash/Squeeze	HOOK UP TO ANNULUS. PRES TEST LINES. PUT 2000 PSI ON ANNULUS AND SHUT IN. HOOK UP TO 4-1/2" CSG. PMP 2 BPM TO START PUMPING INTO RSI AT 3116 PSI. START ACID. RATE 5.9 BPM AT 4190 PSI. ACID GONE. RATE AT 7 BPM AT 6100 PSI THEN COME DOWN TO 4822 PSI. RATE 9.6 BPM AT 5956 PSI THEN CAME DOWN TO 4420 PSI. ATTEMPT TO GET 10+ BPM BUT PUMP WOULD HOLD. WITH 155 BBLs DISPLACE HAD PRES SPIKE TO 7200 PSI. SLOW RATE. END RATE AT 8.8 AT 3382 PSI. ISIP 2368 PSI.
10:00	3.00	13:00	WLWK	Wireline	EQUALIZE AND OPEN WELL. START RIH W/ DUMMY PLUG. HAD BALL OF GREASE IN FRAC VALVES. WORK THRU THEN CCL NOT WORKING. POOH AND X -O CCL. EQUALIZE AND OPEN WELL. RIH W/ 4-1/2" DUMMY PLUG. CORALATE TO SLB CBL LOG TO TIE IN TO LT AT 6996'. START PUMPING WITH HES AT 2 BPM AT 2500 PSI - 6 BPM AT 2780. GO TO 8 BPM TO PUMP TOOLS DOWN WHEN QUIT MOVING AT 7878'. SHUT DOWN PUMPS. UNABLE TO COME UP. STUCK TOOLS AT 74" ANGLE OF HEEL.. WORK LINE. NO CHANGE. FLOW BACK SLOW AS WORK LINE. NO CHANGE. SURGE VALVE QUICK. TOOLS CAME FREE. READING CCL. POOH W/ TOOLS. RD SLB AND MOVE HES OVER.
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN WAITING ON COIL TBG.

5H-1-46 TW BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	GOP	General Operations	WAITING ON COIL FROM TW WELL.
20:00	6.00	02:00	CTU	Clean Out	SWING COIL OVER FROM 5H-1-46 UB. NU TO FRAC VALVES. PRES TEST STACK TO 4000. OPEN WELL AND RIH. CIRC AS RIH TO RSI AT 11,791'. PUMP SWEEP. POOH WITH COIL. LD TOOLS. BLOW COIL DRY. RD COIL HEAD. SDFN.
02:00	4.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN WAITING FOR SLB TO MOVE OVER.
17:00	0.50	17:30	BOPI	Install BOP's	MOVE OVER FROM UB. NU BOP. PU 4-1/2" HES DUMMY PLUG.
17:30	2.00	19:30	WLWK	Wireline	HOOK UP HES TO CSG AND PUT 2000 PSI ON ANNULUS. PRES TEST LINE TO 8500 PSI. EQUALIZE 1000 PSI AND OPEN WELL. RIH W/ 4-1/2" DUMMY PLUG TO LINER TOP. CORRELATE TO JTS UNDER LINER TOP AT 7063' AND 7105'. RIH W/ DUMMY PLUG AS PUMP DOWN WITH HES. BEGIN 2 BPM AT 1900 PSI. END 9.9 BPM AT 3400 PSI. RUN PLUG TO 11,785'. POOH W/ DUMMY PLUG.
19:30	2.50	22:00	PFRT	Perforating	PU 3-1/8" PERF GUNS (23 GR, 48 EOD, 36" PENT, 4 SPF) INTO LUBE. EQUALIZE 1000 PSI. RIH AND CORRELATE TO JTS BELOW LT AT 7063' AND 7105'. RIH AS PUMP DOWN WITH HES. BEGIN 2 BPM AT 2200 PSI. END 10 BBPM AT 3450 PSI. SHUT DOWN AT 11,776'. PULL UP AND PERF CR-3 FORM 11,495'-11,757' WITH 60 HOLES IN 15' AS PER DESIGN. POOH. SHUT WELL IN. VERIFY ALL PERFS SHOT. RD SLB AND HES.
22:00	8.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 TW BTR 2/24/2013 06:00 - 2/25/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MOVE IN AND FILLING FRAC LINE.

5H-1-46 TW BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FILLING FRAC LINE. BACKSIDE MANIFOLD IN. RIVER LOAD OUT SET.

5H-1-46 TW BTR 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FINISH FILLING FRAC LINE. HEAT FRAC LINE.

5H-1-46 TW BTR 2/27/2013 06:00 - 2/28/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MIRU HES AND START FRAC ON 5H-1-46 UB

5H-1-46 TW BTR 2/28/2013 06:00 - 3/1/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	LOCL	Lock Wellhead & Secure	WSI And Secured.
20:00	1.25	21:15	SRIG	Rig Up/Down	MORU From 5H-1-46 UB. Prime Up HP And Chemicals. Pressure Test To 9500#. Pressure Up On 7" Annulus To 1800#s
21:15	0.34	21:35	SMTG	Safety Meeting	Hold Safety Meeting. Talked About Smoking Area, Escape Routes, Emergency Vehicle, Fall Protection, Tight Spots And Red Zone.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
21:35	1.25	22:50	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16 Open Well, 1,271 Psi. ICP. BrokeDown At 10.0 Bpm And 3,718 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 35.2 Bpm And 5,561 Psi., Get ISIP, 2,906 Psi.. 0.83 Psi./Ft. F.G.. 20/60 Holes. Stage Into XLink Pad, 49.8 Bpm At 6,328 Psi.. On Perfs, 60.7 Bpm At 7,138 Psi., 18,826 Gals. Stage Into 1.0# 20/40 White Prop, 60.4 Bpm At 7,760 Psi.. On Perfs, 60.3 Bpm At 7,624 Psi., 9,999 Gals. Stage Into 2.0# 20/40 White Prop, 55.4 Bpm At 7,202 Psi.. On Perfs, 55.8 Bpm At 6,450 Psi., 15,072 Gals. Stage Into 2.5# 20/40 White Prop, 55.8 Bpm At 6,332 Psi.. On Perfs, 55.9 Bpm At 6,221 Psi., 25,282 Gals. Stage Into 3.0# 20/40 White Prop, 55.9 Bpm At 6,058 Psi.. On Perfs, 55.4 Bpm At 6,748 Psi., 13,911 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,166 Psi.. 0.83 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,300# Total Clean - 104,622 Gals.. 2,491 Bbls.. BWTR - 2,669 Bbls. Max. Rate - 60.4 Bpm Avg. Rate - 54.7 Bpm Max. Psi. - 7,759 Psi. Avg. Psi. - 6,548 Psi.</p>
22:50	0.33	23:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
23:10	2.17	01:20	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 11,465'. 2,300 Psi. Perforate Stage 2 CR-3 Zone, 11,173 - 11,435'. 60 Holes. 2,150 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
01:20	0.33	01:40	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
01:40	1.50	03:10	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16 Open Well, 1,905 Psi. ICP. BrokeDown At 13.0 Bpm And 4,948 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 31.6 Bpm And 6,282 Psi., Get ISIP, 3,658 Psi.. 0.93 Psi./Ft. F.G.. 20/60 Holes. Stage Into XLink Pad, 30.0 Bpm At 6,003 Psi.. On Perfs, 44.7 Bpm At 6,609 Psi., 18,816 Gals. Stage Into 1.0# 20/40 White Prop, 44.8 Bpm At 6,747 Psi.. On Perfs, 44.6 Bpm At 6,665 Psi., 10,008 Gals. Stage Into 2.0# 20/40 White Prop, 44.6 Bpm At 6,723 Psi.. On Perfs, 55.8 Bpm At 6,450 Psi., 15,344 Gals. Stage Into 2.5# 20/40 White Prop, 54.7 Bpm At 6,636 Psi.. On Perfs, 55.4 Bpm At 6,448 Psi., 25,536 Gals. Stage Into 3.0# 20/40 White Prop, 55.5 Bpm At 6,379 Psi.. On Perfs, 55.5 Bpm At 6,315 Psi., 13,390 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,024 Psi.. 0.85 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,200# Total Clean - 121,110 Gals.. 2,884 Bbls.. BWTR - 3,060 Bbls. Max. Rate - 55.5 Bpm Avg. Rate - 52.1 Bpm Max. Psi. - 6,851 Psi. Avg. Psi. - 6,482 Psi.</p>
03:10	0.17	03:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
03:20	2.17	05:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 11,143'. 2,400 Psi. Perforate Stage 2 CR-3 Zone, 10,851 - 11,113'. 60 Holes. 2,200 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
05:30	0.50	06:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.



5H-1-46 TW BTR 3/1/2013 06:00 - 3/2/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	FRAC	Frac. Job	<p>CREW CHANGE. HSM.</p> <p>FRAC STG #3- CR-3 PERFS 10,851'-11,113' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1945 PSI AT 05:47 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 3886 PSI AT 10.1 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3472 PSI. FLUSH W/ 7331 GAL. 37.7 BPM AT 7531 PSI. STAGE XL PAD. STABLE RATE OF 42.8 BPM AT 6566 PSI. ISIP 3274. FG .74. PERFS OPEN 20/60. CONT XL PAD. 53.2 BPM AT 7295 PSI. STAGE TO 1 PPA 20/40 WHITE. 53.2 BPM AT 7327 PSI. ON PERFS 53.2 BPM AT 7333 PSI. STAGE TO 2 PPA 20/40 WHITE. 53.1 BPM AT 7051 PSI. ON PERFS 58.0 BPM AT 6996 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 58.0 BPM AT 6919 PSI. ON PERFS 58.1 BPM AT 6586 PSI. STAGE TO 3 PPA 20/40 WHITE. 58.2 BPM AT 6480 PSI. ON PERFS 58.2 BPM AT 6382 PSI. FLUSH 58.3 BPM AT 6648 PSI. WSI WITH 2800 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3203 FG .88 MAX RATE 58.2 BPM MAX PRES 7347 PSI AVE RATE 56.7 BPM AVE PRES 6774 PSI PMP 140,300 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 24,181 GAL 20# HYBOR G (16) 83,838 GAL (TOTAL FLUID 112,019 GAL) BWTR 2667 BBLS</p>
07:30	2.00	09:30	PFRT	Perforating	<p>PERF STG #4- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2650 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,821' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 10,529'-10,791' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.</p>
09:30	1.50	11:00	FRAC	Frac. Job	<p>FRAC STG #4- CR-3 PERFS 10,529'-10,791' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2089 PSI AT 09:31 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4112 PSI AT 9.4 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3526 PSI. FLUSH W/ 6762 GAL. 38.5 BPM AT 7485 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 44.8 BPM AT 6012 PSI. ISIP 3256. FG .74. PERFS OPEN 24/60. CONT XL PAD. 58.3 BPM AT 7275 PSI. STAGE TO 1 PPA 20/40 WHITE. 58.3 BPM AT 7325 PSI. ON PERFS 58.2 BPM AT 7151 PSI. STAGE TO 2 PPA 20/40 WHITE. 58.2 BPM AT 7063 PSI. ON PERFS 58.2 BPM AT 6775 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 58.3 BPM AT 6717 PSI. ON PERFS 58.2 BPM AT 6823 PSI. STAGE TO 3 PPA 20/40 WHITE. 58.2 BPM AT 6791 PSI. ON PERFS 58.2 BPM AT 6728 PSI. FLUSH 58.1 BPM AT 7572 PSI. WSI WITH 3000 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3064 FG .88 MAX RATE 58.3 BPM MAX PRES 7443 PSI AVE RATE 58.3 BPM AVE PRES 6877 PSI PMP 140,300 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 30,448 GAL 20# HYBOR G (16) 83,682 GAL (TOTAL FLUID 118,130 GAL) BWTR 2813 BBLS</p>


Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	2.00	13:00	PFRT	Perforating	PERF STG #5- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2600 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,494' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 10,207'-10,469' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2400 PSI.
13:00	1.50	14:30	FRAC	Frac. Job	FRAC STG #5- CR-3 PERFS 10,207'-10,469' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2081 PSI AT 13:03 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4441 PSI AT 10.4 BPM. PMP 4000 GAL 15% HCL ACID. 10.4 BPM AT 3719 PSI. FLUSH W/ 6261 GAL. 40.0 BPM AT 7317 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 45.8 BPM AT 5535 PSI. ISIP 2758. FG .70. PERFS OPEN 25/60. CONT XL PAD. 59.5 BPM AT 6740 PSI. STAGE TO 1 PPA 20/40 WHITE. 60.1 BPM AT 6740 PSI. ON PERFS 60.1 BPM AT 6604 PSI. STAGE TO 2 PPA 20/40 WHITE. 60.1 BPM AT 6489 PSI. ON PERFS 60.2 BPM AT 6369 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 60.1 BPM AT 6293 PSI. ON PERFS 60.2 BPM AT 6319 PSI. STAGE TO 3 PPA 20/40 WHITE. 60.1 BPM AT 6251 PSI. ON PERFS 60.1 BPM AT 6250 PSI. FLUSH 60.1 BPM AT 6350 PSI. WSI WITH 3000 PSI. TURN OVER TO WIRELINE. ISDP 3059 FG .81 MAX RATE 60.2 BPM MAX PRES 6875 PSI AVE RATE 60.1 BPM AVE PRES 6359 PSI PMP 140,200 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 23,746 GAL 20# HYBOR G (16) 82,747 GAL (TOTAL FLUID 110,493 GAL) BWTR 2631 BBLs
14:30	1.84	16:20	PFRT	Perforating	PERF STG #6- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 6 INTO LUB AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 10,177' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 9885'-10,147' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2350 PSI.
16:20	0.42	16:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
16:45	1.25	18:00	FRAC	Frac. Job	Frac Stage 6. Fluid System: Hybor G 16 Open Well, 2,052 Psi. ICP. BrokeDown At 10.5 Bpm And 3,764 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.0 Bpm And 7,174 Psi., Get ISIP, 3,043 Psi.. 0.85 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 29.6 Bpm At 5,646 Psi.. On Perfs, 50.2 Bpm At 5,703 Psi., 18,895 Gals. Stage Into 1.0# 20/40 White Prop, 55.5 Bpm At 6,575 Psi.. On Perfs, 55.3 Bpm At 6,363 Psi., 10,059 Gals. Stage Into 2.0# 20/40 White Prop, 55.2 Bpm At 6,581 Psi.. On Perfs, 55.3 Bpm At 6,160 Psi., 15,042 Gals. Stage Into 2.5# 20/40 White Prop, 55.4 Bpm At 6,055 Psi.. On Perfs, 55.4 Bpm At 5,999 Psi., 26,565 Gals. Stage Into 3.0# 20/40 White Prop, 55.3 Bpm At 6,114 Psi.. On Perfs, 55.3 Bpm At 6,234 Psi., 12,496 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,270 Psi.. 0.88 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,200# Total Clean - 116,337 Gals.. 2,770 Bbls.. BWTR - 2,960 Bbls. Max. Rate - 55.4 Bpm Avg. Rate - 55.3 Bpm Max. Psi. - 6,654 Psi. Avg. Psi. - 6,176 Psi.
18:00	0.17	18:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:10	1.66	19:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Pull Up To Depth, Set CFP At 9,855'. 2,500 Psi. Perforate Stage 7 CR-3 Zone, 9,563 - 9,825'. 60 Holes. 2,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
19:50	0.25	20:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
20:05	1.17	21:15	FRAC	Frac. Job	Frac Stage 7. Fluid System: Hybor G 16 Open Well, 2,085 Psi. ICP. BrokeDown At 10.1 Bpm And 3,568 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.2 Bpm And 6,051 Psi., Get ISDP, 3,176 Psi.. 0.87 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 29.8 Bpm At 4,961 Psi.. On Perfs, 50.3 Bpm At 6,016 Psi., 18,909 Gals. Stage Into 1.0# 20/40 White Prop, 59.4 Bpm At 7,035 Psi.. On Perfs, 59.5 Bpm At 6,844 Psi., 10,010 Gals. Stage Into 2.0# 20/40 White Prop, 59.6 Bpm At 6,590 Psi.. On Perfs, 59.6 Bpm At 6,278 Psi., 15,029 Gals. Stage Into 2.5# 20/40 White Prop, 59.5 Bpm At 6,289 Psi.. On Perfs, 59.6 Bpm At 6,285 Psi., 26,852 Gals. Stage Into 3.0# 20/40 White Prop, 59.5 Bpm At 6,454 Psi.. On Perfs, 59.5 Bpm At 6,319 Psi., 12,454 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,244 Psi.. 0.88 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,100# Total Clean - 114,905 Gals.. 2,736 Bbls.. BWTR - 2,916 Bbls. Max. Rate - 59.6 Bpm Avg. Rate - 59.5 Bpm Max. Psi. - 7,105 Psi. Avg. Psi. - 6,438 Psi.
21:15	0.17	21:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
21:25	1.66	23:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Pull Up To Depth, Set CFP At 9,533'. 2,500 Psi. Perforate Stage 8 CR-3 Zone, 9,241 - 9,503'. 60 Holes. 2,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
23:05	0.25	23:20	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
23:20	1.17	00:30	FRAC	Frac. Job	Frac Stage 8. Fluid System: Hybor G 16 Open Well, 2,137 Psi. ICP. BrokeDown At 10.0 Bpm And 4,421 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 38.9 Bpm And 6,844 Psi., Get ISDP, 3,237 Psi.. 0.88 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 31.6 Bpm At 5,576 Psi.. On Perfs, 54.7 Bpm At 6,333 Psi., 18,911 Gals. Stage Into 1.0# 20/40 White Prop, 60.4 Bpm At 7,139 Psi.. On Perfs, 58.9 Bpm At 6,890 Psi., 10,256 Gals. Stage Into 2.0# 20/40 White Prop, 58.8 Bpm At 6,997 Psi.. On Perfs, 57.2 Bpm At 6,715 Psi., 15,012 Gals. Stage Into 2.5# 20/40 White Prop, 57.3 Bpm At 6,554 Psi.. On Perfs, 57.3 Bpm At 6,449 Psi., 27,035 Gals. Stage Into 3.0# 20/40 White Prop, 57.3 Bpm At 6,422 Psi.. On Perfs, 57.3 Bpm At 6,442 Psi., 12,501 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,481 Psi.. 0.91 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,200# Total Clean - 112,740 Gals.. 2,684 Bbls.. BWTR - 2,860 Bbls. Max. Rate - 60.4 Bpm Avg. Rate - 57.6 Bpm Max. Psi. - 7,320 Psi. Avg. Psi. - 6,567 Psi.
00:30	0.25	00:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.



Start Time	Dur (hr)	End Time	Code	Category	Com
00:45	3.33	04:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Pull Up To Depth, Attempt To Set CFP, Did See Any Indication That Plug Set. POOH At 50'/Min.
04:05	0.42	04:30	CTUW	W/L Operation	Plug Not On When To Surface, Set At 9,200', 2,500 Psi. Pick Up Dummy Plug And Perf. Gun. Nipple Up To Well, Equalize.
04:30	1.50	06:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-15-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Perforate Stage 9 CR-3 Zone, 8,919 - 9,181'. 60 Holes. 2,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	PFRT	Perforating	CREW CHANGE. HSM. CHECK FLUID VOLUMES. CONT POOH W/ GUNS FROM STG #9. VERIFY ALL GUNS SHOT. DROP BALL. TURN OVER TO HES. AFTER BALL WAS DROPPED FOUND OUT THAT BTM PART OF DUMMY PLUG WAS BROKEN. PIECES OF DUMMY PLUG IN WELL. CONT WITH FRAC.
06:15	1.50	07:45	FRAC	Frac. Job	FRAC STG #9- CR-3 PERFS 8919'-9181' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2151 PSI AT 06:15 LET BALL FALL FOR 15 MIN. PUMP TO SEAT BALL. BREAK DOWN 4350 PSI AT 15.3 BPM. PMP 4000 GAL 15% HCL ACID. 10.6 BPM AT 3573 PSI. FLUSH W/ 5940 GAL. 45.1 BPM AT 6815 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 50.7 BPM AT 6286 PSI. ISIP 2803. FG .82. PERFS OPEN 20/60. CONT XL PAD. 57.9 BPM AT 6755 PSI. STAGE TO 1 PPA 20/40 WHITE. 61.4 BPM AT 6845 PSI. ON PERFS 61.9 BPM AT 6554 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.9 BPM AT 6399 PSI. ON PERFS 62.1 BPM AT 6254 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 62.1 BPM AT 6258 PSI. ON PERFS 62.1 BPM AT 6320 PSI. STAGE TO 3 PPA 20/40 WHITE. 61.9 BPM AT 6418 PSI. ON PERFS 61.9 BPM AT 6438 PSI. LOST PUMP. FLUSH W/ 5 PUMPS. FLUSH 51.6 BPM AT 5719 PSI. WSI WITH 3100 PSI. TURN OVER TO WIRELINE. ISDP 3047 FG .85 MAX RATE 62.2 BPM MAX PRES 6848 PSI AVE RATE 61.4 BPM AVE PRES 6392 PSI PMP 140,500 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 24,825 GAL 20# HYBOR G (16) 83,180 GAL (TOTAL FLUID 112,005 GAL) BWTR 2667 BBLs
07:45	1.75	09:30	PFRT	Perforating	PERF STG #10- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 10 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8889' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 8537'-8799' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:30	1.50	11:00	FRAC	Frac. Job	<p>FRAC STG #10- CR-3 PERFS 8537'-8799' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2158 PSI AT 12:37 LET BALL FALL FOR 10 MIN. PUMP TO SEAT BALL. BREAK DOWN 3579 PSI AT 15.0 BPM. PMP 4000 GAL 15% HCL ACID. 10.3 BPM AT 3282 PSI. FLUSH W/ 5263 GAL. 39.9 BPM AT 5917 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 51.4 BPM AT 5742 PSI. ISIP 3019. FG .85. PERFS OPEN 24/60. CONT XL PAD. 60.7 BPM AT 6655 PSI. STAGE TO 1 PPA 20/40 WHITE. 61.0 BPM AT 6648 PSI. ON PERFS 61.1 BPM AT 6467 PSI. STAGE TO 2 PPA 20/40 WHITE. 61.2 BPM AT 6288 PSI. ON PERFS 61.3 BPM AT 6085 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 61.3 BPM AT 6035 PSI. ON PERFS 61.3 BPM AT 6042 PSI. STAGE TO 3 PPA 20/40 WHITE. 61.0 BPM AT 6228 PSI. ON PERFS 61.0 BPM AT 6381 PSI. CUT SAND ON 3 PPA DUE TO SHARP INCREASE IN NET PRESSURES. FLUSH 60.0 BPM AT 7250 PSI. SLOW RATE TO FINISH FLUSH. WSI WITH 3500 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3623 FG .93 MAX RATE 61.4 BPM MAX PRES 6659 PSI AVE RATE 61.2 BPM AVE PRES 6169 PSI PMP 129,200 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 20,042 GAL 20# HYBOR G (16) 80,838 GAL. (TOTAL FLUID 104,880 GAL) BWTR 2497 BBLs</p>
11:00	1.50	12:30	PFRT	Perforating	<p>PERF STG #11- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 11 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO. PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8507' WITH 2500 PSI. PULL UP AND PERF CR-3 FORM 8215'-8477' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.</p>
12:30	1.75	14:15	FRAC	Frac. Job	<p>FRAC STG #11- CR-3 PERFS 8215'-8477' 60 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2120 PSI AT 09:34 LET BALL FALL FOR 10 MIN. PUMP TO SEAT BALL. BREAK DOWN 3855 PSI AT 15.2 BPM. PMP 4000 GAL 15% HCL ACID. 10.5 BPM AT 3613 PSI. FLUSH W/ 5420 GAL. 42.5 BPM AT 6970 PSI. LET SOAK 10 MIN. STAGE XL PAD. STABLE RATE OF 51.6 BPM AT 5562 PSI. ISIP 3136. FG .86. PERFS OPEN 27/60. CONT XL PAD. 60.4 BPM AT 6385 PSI. STAGE TO 1 PPA 20/40 WHITE. 60.5 BPM AT 6421 PSI. ON PERFS 60.6 BPM AT 6226 PSI. STAGE TO 2 PPA 20/40 WHITE. 60.7 BPM AT 6084 PSI. ON PERFS 62.8 BPM AT 6104 PSI. STAGE TO 2.5 PPA 20/40 WHITE. 62.8 BPM AT 6142 PSI. ON PERFS 62.8 BPM AT 6157 PSI. NET PRESSURE CLIMBING SLOW. EXTEND 2.5 PPA FOR SAND VOLUME. 62.5 BPM AT 6321 PSI, PUMP RATE BOUNCED AT FLUSH. CAUSED SHARP INCREASE IN NET. FLUSH 62.3 BPM AT 6795 PSI. SLOW RATE TO FINISH FLUSH 46.2 BPM AT 6140 PSI. WSI WITH 3300 PSI. TURN OVER TO WIRELINE.</p> <p>ISDP 3740 FG .94 MAX RATE 62.8 BPM MAX PRES 6517 PSI AVE RATE 62.1 BPM AVE PRES 6236 PSI PMP 141,100 LBS 20/40 WHITE. 150 LBS SCALE SORB 3 SLK WTR 18,741 GAL 20# HYBOR G (16) 85,430 GAL (TOTAL FLUID 108,171 GAL) BWTR 2576 BBLs</p>



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
14:15	1.25	15:30	PFRT	Perforating	PERF STG #12- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 12 INTO LUBE AND EQUALIZE 2900 PSI. OPEN WELL AND RIH. CORRELATE TO LINER TO PUMP DOWN TO DEPTH AT 10 BPM. PULL UP AND SET CFP AT 8185' WITH 2350 PSI. PULL UP AND PERF CR-3 FORM 7958'-8155' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT, DROP BALL. TURN WELL OVER TO HES WITH 2300 PSI.
15:30	0.42	15:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
15:55	1.00	16:55	FRAC	Frac. Job	Frac Stage 12. Fluid System: Hybor G 16 Open Well, 2,161 Psi. ICP. BrokeDown At 9.7 Bpm And 4,227 Psi.. Pump 4000 Gals. 15% HCL. Get Stabilized Injection Of 40.9 Bpm And 5,963 Psi., Get ISDP, 3,354 Psi.. 0.89 Psi./Ft. F.G.. 25/60 Holes. Stage Into XLink Pad, 28.7 Bpm At 5,115 Psi.. On Perfs, 53.0 Bpm At 6,156 Psi., 15,367 Gals. Stage Into 1.0# 20/40 White Prop, 57.2 Bpm At 6,710 Psi.. On Perfs, 59.8 Bpm At 6,689 Psi., 10,051 Gals. Stage Into 2.0# 20/40 White Prop, 60.2 Bpm At 6,497 Psi.. On Perfs, 60.3 Bpm At 6,206 Psi., 15,036 Gals. Stage Into 2.5# 20/40 White Prop, 60.4 Bpm At 6,063 Psi.. On Perfs, 60.4 Bpm At 5,980 Psi., 16,159 Gals. Stage Into 3.0# 20/40 White Prop, 60.4 Bpm At 5,858 Psi.. On Perfs, 60.4 Bpm At 5,845 Psi., 11,471 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISIP, 3,354 Psi.. 0.92 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 110,400# Total Clean - 92,084 Gals.. 2,192 Bbls.. BWTR - 2,348 Bbls. Max. Rate - 60.5 Bpm Avg. Rate - 60.1 Bpm Max. Psi. - 6,707 Psi. Avg. Psi. - 6,138 Psi.
16:55	13.08	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. MORU On 5-6D-45 BTR

5H-1-46 TW BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

5H-1-46 TW BTR 3/7/2013 06:00 - 3/8/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	FBCK	Flowback Well	WELL FLOWING TO SALES WAITING ON COIL TBG.
14:30	1.50	16:00	SRIG	Rig Up/Down	MI CTS. SPOT AND RU COIL EQUIP.
16:00	1.00	17:00	GOP	General Operations	MU STI TOOLS OF CONNECTOR, CHECKS, BI-DI JAR, HYD DISCONNECT, CIRC SUB, AGITATOR, MOTOR, 3-7/8" MILL. FILL COIL, CIRC TEST TOOLS. MU LUBE. PRES TEST
17:00	2.50	19:30	RUTB	Run Tubing	RIH W/ MILL ON COIL AS CIRC .5 BPM. START CIRC 2.5 BPM AT 6800'.
19:30	7.50	03:00	DOPG	Drill Out Plugs	D/O PLUGS AT 8185' (6 MIN), 8507' (11 MIN), AND 8889' (13 MIN), RIH AND TAG #4 AT 9200'. MAKE WIPER TRIP TO 6900'. RUN BACK DOWN. D/O PLUGS AT 9200' (35 MIN), 9533' (50 MIN), AND 9855' (91 MIN TO GET THRU #6). RIH AND TAG #7 AT 10,177' . MILL ON PLUG #7. STILL SLOW MILLING. PMP SWEEP.
03:00	2.00	05:00	PULT	Pull Tubing	POOH TO X-OUT MILL AND MOTOR.
05:00		05:00	RUTB	Run Tubing	MU NEW 3-7/8" COWBOY MILL AND MOTOR. PRES TEST LUBE TO 5000 PSI. RIH W/ 2" COIL TBG.

5H-1-46 TW BTR 3/8/2013 06:00 - 3/9/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.34	07:20	TRIP	Tripping	Running In Hole With Mill #2, Bi-Di Jar, Hydraulic Disconnect, Dual Circ. Sub, Agitator And Motor. Static Well Pressure 750#. At 200' Open Well To FlowBack, .5 Bpm Returns, 500#s. Start Pumping At 2 Bpm At 6000', 600#s Flowing Pressure, 3 Bpm Returns.
07:20	0.50	07:50	CLN	Clean Out Hole	Tag CFP #7 At 10,177', 3.0 Bpm Returns, 550#. DrillOut In 31 Min., 3.0 Bpm Returns, 400#.
07:50	0.17	08:00	TRIP	Tripping	TIH To Next Plug.
08:00	0.58	08:35	CLN	Clean Out Hole	Tag CFP #8 At 10,494', 3.0 Bpm Returns, 400#. DrillOut In 34 Min., 3.0 Bpm Returns, 300#.
08:35	0.67	09:15	TRIP	Tripping	TIH To Next Plug. 150' Of Sand.
09:15	0.75	10:00	CLN	Clean Out Hole	Tag CFP #9 At 10,821', 3.0 Bpm Returns, 300#. DrillOut In 46 Min., 3.0 Bpm Returns, 300#.
10:00	2.17	12:10	TRIP	Tripping	TIH To Next Plug. 300' Of Sand.
12:10	1.00	13:10	CLN	Clean Out Hole	Tag CFP #10 At 11,143', 3.0 Bpm Returns, 500#. DrillOut In 60 Min., 3.0 Bpm Returns, 500#.
13:10	1.50	14:40	TRIP	Tripping	TIH To Next Plug. 280' Of Sand.
14:40	1.33	16:00	CTU	Clean Out	Tag CFP #11 At 11,465', 3.0 Bpm Returns, 600#. DrillOut In 75 Min., 3.0 Bpm Returns, 550#.
16:00	0.83	16:50	TRIP	Tripping	TIH To PBTD. 100' Of Sand.
16:50	0.50	17:20	CLN	Clean Out Hole	Pump 2 20 Bbl. Sweeps. Circulate 30 Minutes.
17:20	2.67	20:00	TRIP	Tripping	POOH With Coil.
20:00	0.50	20:30	GOP	General Operations	ND EQUIP. MOVE OVER. TURN WELL OVER TO FBC AND SALES.
20:30	10.00	06:30	FBCK	Flowback Well	WELL ON PROD TO SALES.

5H-1-46 TW BTR 3/27/2013 06:00 - 3/28/2013 06:00

API/UWI 43-013-51216	State/Province	County	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,918.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.00	08:00	WKLL	Kill Well	PMP 140 BBLS HOT WTR. PRES TO 1200 PSI.
08:00	0.50	08:30	FBCK	Flowback Well	FLOW BACK TO PROD TANKS.
08:30	1.00	09:30	GOP	General Operations	ND FRAC VALVES. NU BOP. RU FLOOR.
09:30	2.50	12:00	WKLL	Kill Well	STING OUT OF LINER. PMP 300 BBLS (150 HOT, 150 COLD) AS CIRC TO PROD TANKS.X-OVER FOR 4.5"
12:00	1.00	13:00	GOP	General Operations	RU CSH CREW. WAITED ON LD MACHING.
13:00	0.50	13:30	GOP	General Operations	SPOT CATWALK AND RACKS.
13:30	2.00	15:30	PULT	Pull Tubing	POOH AS LD 4-1/2" CSG
15:30	0.75	16:15	GOP	General Operations	FLUSH CSG W/ 70 BBLS HOT WTR.
16:15	2.75	19:00	PULT	Pull Tubing	CONT POOH AS LD 4-1/2" CSG. 178-JTS TOTAL.
19:00	0.50	19:30	GOP	General Operations	RD CSG CREW. SWIFN W/ CSG TO TREATER.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6444
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR WASATCH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2650 FNL 0284 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512160000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/1/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Lease"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The tribal lease has been earned for this well. The new lease number is 1420H626444.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 07, 2013		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 5/6/2013	

Effective Date: 11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

REVIEW:

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

DATA ENTRY:

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

COMMENTS:

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

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LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

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LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

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1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

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4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

New Operator Contact information:

RIG II, LLC
1582 West 2600 South
Woods Cross, Utah 84087-0298
Telephone: (801) 683-4245
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley
Permit Analyst

RECEIVED
OCT 21 2016
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER _____

2. NAME OF OPERATOR:
RIG II, LLC N4055

3. ADDRESS OF OPERATOR:
1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087 PHONE NUMBER: (801) 683-4245

4. LOCATION OF WELL
FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 11/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC
1582 West 2600 South
Woods Cross, Utah 84087-0298
801-683-4245
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165
Duane Zavala NAME (PLEASE PRINT)
Duane Zavala SIGNATURE
Senior Vice President -
EH&S, Government and Regulatory Affairs

RIG II, LLC
Jesse McSwain NAME (PLEASE PRINT)
Jesse McSwain SIGNATURE
Manager

NAME (PLEASE PRINT) Jesse McSwain
SIGNATURE Jesse McSwain
TITLE Manager
DATE 10/20/16

(This space for State use only)

APPROVED

NOV 07 2016

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

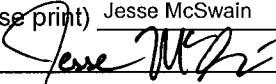
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	(See attached list)
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Bill Barrett Corporation
Date original permit was issued:	
Company that permit was issued to:	Bill Barrett Corporation

Check one	Desired Action:
	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-UDOGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager
Signature  Date 10/20/16
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

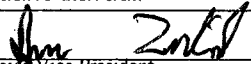
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

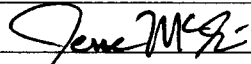
Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

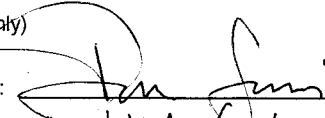
CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

NEW OPERATOR

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: 
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

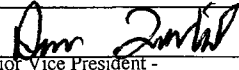
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

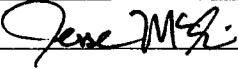
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION
Address: 1099 18th Street Ste 2300
city DENVER state CO zip 80202
Phone: (303) 293-9100
Comments:


Name: Duane Zavadii
Signature: 
Senior Vice President -
Title: EH&S, Government and Regulatory Affairs
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC
Address: 1582 West 2600 South
city Wood Cross state UT zip 84087
Phone: (801) 683-4245
Comments:

Name: Jesse McSwain
Signature: 
Title: Manager
Date: 10/20/16

(This space for State use only)

Transfer approved by: 
Title: VIC

Approval Date: 11/3/16

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

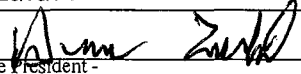
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

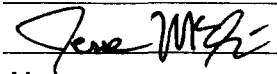
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

NEW OPERATOR

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: _____ Approval Date: _____

Title: _____

Comments:

*This well was approved by USEPA.
EPA approval will be required.*